

<110> Ruben et al.

<120> 83 Human Secreted Proteins

<130> PZ012P1

<140> Unassigned

<141> 1999-01-26

<150> PCT/US98/15949

<151> 1998-07-29

<150> 60/054,212

<151> 1997-07-30

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<150> 60/054,218

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<151> 1997-08-19

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<150> 60/056,727  
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<150> 60/056,554  
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<150> 60/056,730  
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<160> 353

<170> PatentIn Ver. 2.0

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tctcccggac tcttgaggtc acatgcgtgg tggaggacgt aagccacgaa gaccctgagg 180  
tcaagttcaa ctggtacgtg gacggcgtgg aggtgcataa tgccaagaca aagccgcggg 240  
aggagcagta caacagcacg taccgtgtgg tcagcgtcct caccgtcctg caccaggact 300  
ggctgaatgg caaggagtac aagtgcgaag tctccaacaa agccctccca acccccatcg 360  
agaaaaccat ctccaaagcc aaagggcagc cccgagaacc acagggtgtac accctgcccc 420  
catcccggga tgagctgacc aagaaccagg tcagcctgac ctgcctgggtc aaaggcttct 480  
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ccacgcctcc cgtgctggac tccgacggct ccttcttctt ctacagcaag ctcaccgtgg 600  
acaagagcag gtggcagcag gggaaagtct tctcatgctc cgtgatgcat gaggtctctg 660  
acaaccacta cagcagaag agcctctccc tgtctccggg taaatgagtg cgacggccgc 720  
gactctagag gat 733

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<212> PRT  
<213> Homo sapiens

<220>  
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<223> Xaa equals any of the twenty naturally occurring L-amino acids

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Trp Ser Xaa Trp Ser  
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cccgaatat ctgccatctc aattag 86

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<211> 271

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gcccctaact ccgcccagtt ccgcccattc tccgccccat ggctgactaa ttttttttat 180  
ttatgcagag gccgaggccg cctcggcctc tgagctattc cagaagtagt gaggaggctt 240  
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<212> DNA

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<211> 73

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ccatctcaat tag 73

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cagttccgcc cattctccgc cccatggctg actaattttt tttatttatg cagaggccga 180  
ggccgcctcg gcctctgagc tattccagaa gtagtgagga ggcttttttg gaggcctagg 240  
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aggaaatcca aatctcctcc caaagtgcc attgtgattc aggacgatag ccttcccgcg 180  
gggccccctc cacagatccg catcctcaag aggccacca gcaacgggtg ggtcagcagc 240  
cccaactcca ccagcaggcc cacccttcca gtcaagtcct tagcacagcg agaggccgag 300  
tacgccgagg ccggaagcgc gatcctgggc agcgcagacc ccgaggagga gcaggagaaa 360



|             |             |             |             |             |             |      |
|-------------|-------------|-------------|-------------|-------------|-------------|------|
| cccatcctcg  | acaggccaac  | caggatctcc  | caaccggaag  | acagcaggca  | gcccataaat  | 420  |
| gtgatcagac  | agcctttggg  | tcctgatggg  | tctcaaggct  | tcaaacagcg  | cagataaatg  | 480  |
| caggcaagaa  | aagatgccgc  | cgttgctgcc  | gtcaccgcct  | cctgggtcgt  | ccgccacggg  | 540  |
| ttgcantgcc  | gtggcagaca  | gctggacttg  | agcagaggga  | acgacctgac  | ttacttgcac  | 600  |
| tgtgatcccc  | cttgctccgc  | ccactgtgac  | cttgaacccc  | atgcactgtg  | acctcccccc  | 660  |
| ttctccccct  | tcccactgtg  | attggcacat  | cgacaagggc  | tgtcccaagt  | caatggaaag  | 720  |
| ggaaaggggtg | gggggttaggg | gaagggttggg | gggaccagc   | aaggactcag  | agagtcagac  | 780  |
| agtgccactt  | ggccacttgg  | ggtaaagcca  | gtgccagcaa  | taacagttta  | tcattgctcat | 840  |
| taatttggga  | tttcaaaaca  | caaatgaaaa  | ctcacaccca  | cccaccccca  | agtgcattgtc | 900  |
| tccatcactt  | aaaaagtaag  | ttccatttga  | aaatatcctt  | tctttttttt  | ttcttcctat  | 960  |
| ttttgtttgt  | ttatacaaat  | atctgatttg  | caagaaaaag  | tgcattggag  | gggttttagt  | 1020 |
| ggttttaata  | atttttaatt  | aagaaagggt  | agtttggttag | tctacttaaa  | aatgtttctg  | 1080 |
| ggaaattcac  | tagaaacatt  | aaccaatagg  | atlttggtga  | gcttagcttc  | tgtattccta  | 1140 |
| ctgccgcccc  | gaaaaggggc  | agggctctgc  | agccgccagg  | acagacgagc  | accccatgcc  | 1200 |
| tatacctccc  | tccccgagct  | aagtcccagg  | gcattctggg  | cttgccctgga | gactgggcta  | 1260 |
| gctctgtagg  | ctcggagctg  | gggaggggtgc | caaccccacc  | tctagtattt  | tgggagatag  | 1320 |
| ggaaagtga   | ccgacttccc  | cttcccatac  | ccctcagggt  | ggttccctac  | cagccaggct  | 1380 |
| tactacttct  | agaagaaagc  | agagtgccag  | ggagtggagat | tgcattccctg | ggcttagaag  | 1440 |
| tgacggagag  | aagacttgtt  | tagtattttg  | ccatcagcac  | aaggaaaacc  | aggagagagt  | 1500 |
| ctgcctccag  | gactctgagc  | cttctgcctc  | gtatgttcag  | aaggtggata  | ggtcttccca  | 1560 |
| ctccagcatg  | gcttgaactc  | ttaggggtct  | gcagtgtctc  | atctccattg  | gtggcccag   | 1620 |
| ctcagtaact  | atacctggta  | catttccctgt | gtgcaatcag  | taccttgaag  | gcagaacatt  | 1680 |
| ctgaataaag  | ttggaaaaar  | aamaaaaaaa  | aaaaaaaaaa  | aaaaaaaaaa  | aaaaaaaaaa  | 1740 |
| aaaaaaaaaa  | aaaaaactcg  | a           |             |             |             | 1761 |

&lt;210&gt; 12

&lt;211&gt; 1519

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 12

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| cagccccggg  | cgccgcgccc | ctctgagtc   | agcctcctac  | tgagaacagt | ccctcccttg  | 120  |
| tgcgggtcgc  | aggctagccg | caggttcggc  | caggtcaaat  | ccattttcta | aaaaagcagg  | 180  |
| gagcagagct  | ctctcttcgc | cgccgacgca  | gaaaggagct  | ggggaggaaa | aagctgctgc  | 240  |
| cttttgcgct  | ggagattcgt | gggcaaggct  | tttcattttc  | ccaggctgct | tcccctcccg  | 300  |
| ggtgaggagc  | gtcctgagac | taaggaaaaga | gcctggaaaa  | tggagcagac | ctggacgaga  | 360  |
| gattattttg  | cagaggatga | tggggagatg  | gtaccagaaa  | cgagtcacac | agcagctttt  | 420  |
| cttagtgaca  | ctaaagatcg | aggccctcca  | gtgcagtcac  | agatctggag | aagtgggtgaa | 480  |
| aagggtcccg  | ttgtgcagac | atattccttg  | agagcatttg  | agaaaccccc | tcaggtacag  | 540  |
| acccaggctc  | ttcgagactt | tgagaagcac  | ctcaatgacc  | tgaagaagga | gaacttcagc  | 600  |
| ctcaagctgc  | kcatctactt | cctggaggag  | cgcatgcaac  | agaagtatga | ggccagccgg  | 660  |
| gaggacatct  | acaagcggaa | cactgagctg  | aagggttgaag | tggagagctt | gaaacgagaa  | 720  |
| ctccaggaca  | agaaacagca | tctggataaa  | acatgggctg  | atgtggagaa | tctcaacagt  | 780  |
| cagaatgaag  | ctgagctccg | acgccagttt  | gaggagcgac  | acagkgagac | ggagcatgtt  | 840  |
| tatgagctct  | tggagaataa | gatscagctt  | ctgcaggagg  | aatccaggct | agcaaagaat  | 900  |
| gaagctgcgc  | ggatggcagc | tctgggtggaa | gcagagaagg  | agtgtaacct | ggagctctca  | 960  |
| gagaaaactga | agggagtcac | caaaaactgg  | gaagatgtac  | caggagacca | ggtcaagccc  | 1020 |
| gaccaataca  | ctgaggccct | ggcccagagg  | gacaagtagg  | tgcttccggt | gctctttttg  | 1080 |
| tcgcttgtct  | tttgccattt | ctcaaggcat  | acagcagctg  | tctgttccc  | tttcaaggac  | 1140 |
| tgacagtagg  | agcttctact | tttctaagac  | tttatgggccc | cacaaccgaa | gacattcttt  | 1200 |
| tcagggttga  | atlttcagtg | gtatccatta  | tgaaaactca  | cttcatggat | tcagtgggca  | 1260 |
| aatagcggca  | agcaagagac | atggattcac  | ttattcggca  | aacatttact | gggcatgcca  | 1320 |
| catgccagat  | accgggctaa | gtatctggca  | tgtgttacag  | aaacaaaaga | cctaaatctt  | 1380 |
| gtcaccaaga  | aacatgttac | atgattttta  | taagttccct  | gatagaagag | catgggggtgc | 1440 |
| tctggggaaa  | tattggaggg | tcattccattc | cacattaaaa  | gagcaagttg | tctgcaaaaa  | 1500 |
| aaaaaaaaaa  | aaaaactcga |             |             |            |             | 1519 |

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 <223> n equals a,t,g, or c

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| gaggacgtgc | tggmctggga | gcacgagcgc | ttcgccatcc | gccgactgcc | cgccttcacg  | 120  |
| ctgtcccacc | tggagagcca | ccgtgacggc | cagcgcanag | catcatggac | gtgcgggtccc | 180  |
| gggtggattc | taagaccctg | acccgtaaca | cgaggatcat | tgcagaggcc | ctgactcgag  | 240  |
| tcatctacaa | cctgacagag | aaggggacac | ccccagacat | gccggtgttc | acagagcaga  | 300  |
| tgatccagca | ggagcagctg | gactcgggtg | tggactggct | caccaaccag | ccgcggggccg | 360  |
| gcagctggtg | gacaaggaca | gcaccttcct | cagcacgctg | gagcaccamc | tgagcmgcta  | 420  |
| cctgaaggac | gtgaagcagc | accacgtcaa | ggctgacaag | cgggaccacg | agtttgtctt  | 480  |
| ctacgaccag | ctgaagcaag | tgatgaatgc | gtacagagtc | aagccagccg | tctttgacct  | 540  |
| gctcctggcc | gttggcattg | ctgcctacct | cggcatggcc | tacgtggctg | tccagcactt  | 600  |
| cagcctcctc | tacaagaccg | tccagaggct | gctcgtgaag | gccaagacac | agtgacacag  | 660  |
| ccacccccac | agccggagcc | ccgcgcgctc | cacagtccct | ggggccgagc | acgagtgagt  | 720  |
| ggaactgcc  | ccgccgcggg | cggccctgca | gggacagggg | ccctctccct | ccccggcggt  | 780  |
| ggttggaaca | ctgaattaca | gagctttttt | ctgttgctct | ccgagactgg | ggggggattg  | 840  |
| tttcttcttt | tccttgtctt | tgaacttcct | tggaggagag | cttgggagac | gtcccggggc  | 900  |
| caggctacgg | acttgcgga  | gagcccccca | gtcctgggag | ccggccgccc | tcggtctgtt  | 960  |
| gtaagcacac | atgcacgatt | aaagaggaga | cgccgggacc | cccaaaaaaa | aaaaaaaaaa  | 1020 |
| aaaaaaaaaa | aaaaaaaaaa | aaaaaaaaaa | aaaaaaaaaa | aaaaactcga | a           | 1071 |

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 <211> 955  
 <212> DNA  
 <213> Homo sapiens

<400> 14

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|-------------|-------------|------------|-------------|------------|-------------|-----|
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| ctagagaccg  | gggcccggaga | cgtggcagcc | gccttgccc   | ccagaaagt  | tcctagaagt  | 120 |
| ttgctggggc  | cgggcgccag  | actgactggc | tggaccatga  | acgtgttccg | aatcctcggc  | 180 |
| gacctgagcc  | acctcctggc  | catgatcttg | ctgctgggga  | agatctggag | gtccaagtgc  | 240 |
| tgcaagggca  | tctctgggaa  | gagccagatc | ctgtttgctc  | tcgtcttca  | caccagggtac | 300 |
| ctggacctgt  | tcaccaactt  | catctccatc | tacaacacag  | taatgaagg  | ggtttttctc  | 360 |
| ctctgtgcct  | atgttacagt  | gtacatgata | tatgggaaat  | tccgtaaaac | ttttgacagt  | 420 |
| gagaatgaca  | cattccgcct  | ggagtttctt | ctgggtcccag | tcattggcct | ttccttcctt  | 480 |
| gaaaactaca  | gtttcactct  | gctggagatc | ctctggactt  | tctctatcta | tctggaatca  | 540 |
| gtggctatcc  | tgccccagct  | cttcatgata | agcaagactg  | gagaggctga | gaccataact  | 600 |
| actcactacc  | tgttctttct  | gggtctgtac | cgggcactct  | acctggctaa | ctggatcagg  | 660 |
| cggataccaga | ctgagaattt  | ctatgaccaa | attgcagctg  | tgtctggagt | agtacaaaac  | 720 |
| atcttctact  | gtgacttctt  | ctacttgtat | gggaccaaag  | gtaggtcctg | ggatgacagc  | 780 |
| aatgctgaca  | ctggcctaag  | gagttactca | tccatttaat  | aagtattcca | gcagatacag  | 840 |
| atgtgaacag  | tcaagtctct  | gccatccaca | atgcttgtgt  | tctaatagca | gaagacaaat  | 900 |
| attttcaata  | aagaaacaaa  | tgccataaaa | acaaaaaaa   | aaaaaaaaaa | ctcga       | 955 |

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<211> 1508  
 <212> DNA  
 <213> Homo sapiens

<400> 15

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| gacacccccca | gaaccctctg | ggggcctgcc | caggggaccc | cctgagcccc | ccgaccggct | 120  |
| tagctgtgat  | gggagtcgag | tgcatcttgc | ttataagtga | gggtagggtg | agggaggaca | 180  |
| ggccagtagg  | gggagggaaa | gggagagggg | caagggcagg | ggactcagga | agcagggggg | 240  |
| ccccatcccc  | agctgggaag | aacatgctat | ccaatctcat | ctcttgtaaa | tacatgtccc | 300  |
| cctgtgagtt  | ctgggctgat | ttgggtctct | catacctctg | ggaaacagac | ctttttctct | 360  |
| cttactgctt  | catgtaattt | tgtatcacct | cttcacaatt | tagttcgtac | ctggcttgaa | 420  |
| gctgctcact  | gctcacacgc | tgcctcctca | gcagcctcac | tgcattcttc | tcttcccatg | 480  |
| caacaccctc  | ttctagttag | cacggcaacc | cctgcagctc | ctctgccttt | gtgctctggt | 540  |
| cctgtccagc  | aggggtctcc | caacaagtgc | tctttccacc | ccaaagggcc | tctccttttc | 600  |
| tccactgtca  | taatctcttt | ccatcttact | tgcccttcta | tactttctca | catgtggctc | 660  |
| cccctgaatt  | ttgcttcctt | tgggagctca | ttcttttcgc | caaggctcac | atgctccttg | 720  |
| cctctgctct  | gtgcactcac | gctcagcaca | catgcatact | cccctctcct | gcgtgtggcc | 780  |
| actgaacatg  | ctcatgtgta | cacacgcttt | tcccgtatgc | tttcttcatg | ttcagtcaca | 840  |
| tgtgctctcg  | ggtgccttgc | attcacagct | acgtgtgccc | ctctcatggt | catgggtctg | 900  |
| cccttgagcg  | tggttgggta | ggcatgtgca | atttgtctag | catgctgagt | catgtctttc | 960  |
| ctatttgcac  | acgtccatgt | ttatccatgt | actttccctg | tgtaccctcc | atgtaccttg | 1020 |
| tgtactttct  | tcccttaaat | catggtattc | ttctgacaga | gccatatgta | ccctaccctg | 1080 |
| cacattgtta  | tgcaactttc | cccaattcat | gtttggtggg | gccatccaca | ccctctcctt | 1140 |
| gtcacagaat  | ctccattttc | gctcagattc | ccccatctc  | cattgcattc | atgtactacc | 1200 |
| ctcagctctac | actcacaatc | atcttctccc | aagactgctc | ccttttgttt | tgtgtttttt | 1260 |
| tgaggggaat  | taaggaaaaa | taagtggggg | caggtttgga | gagctgcttc | cagtggatag | 1320 |
| ttgatgagaa  | tcctgaccaa | aggaaggcac | ccttgactgt | tgggatagac | agatggacct | 1380 |
| atgggggtggg | aggtggtgtc | cctttcacac | tgtggtgtct | cttggggaag | gatctccccg | 1440 |
| aatctcaata  | aaccagtga  | cagtgtgact | cggaaaaaaa | aaaaaaaaaa | aaaaaaaaaa | 1500 |
| aaactcga    |            |            |            |            |            | 1508 |

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<220>

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<222> (70)

<223> n equals a,t,g, or c

<400> 16

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| cggcaaagg  | aactatgtag  | ctgatcttgg | agccatggtg | gtaacaggtc | tttgagggaa | 120 |
| tcctatggct | gtggctcagca | aacaagtaaa | tatggaactg | gccaagatca | agcaaaaatg | 180 |
| cccactttat | gaagccaacg  | gacaagctga | cactgtcaag | gttcctaaag | agaaagatga | 240 |
| aatggtagag | caagagttta  | accggttgct | agaagctaca | tcttacctta | gtcatcaact | 300 |
| agacttcaat | gtcctcaata  | ataagcctgt | gtcccttggc | caggcattgg | aagttgtcat | 360 |
| tcagttacaa | gagaagcatg  | tcaaagatga | gcagattgaa | cattggaaga | agatagtga  | 420 |
| aactcaggaa | gaattgaaag  | aacttcttaa | taagatggta | aatttgaaag | agaaaattaa | 480 |
| agaactccat | cagcaataca  | aagaagcatc | tgaagtaaag | cccccagag  | atattactgc | 540 |
| cgagttctta | gtgaaaagca  | aacacaggga | tctgaccgcc | ctatgcaagg | aatatgatga | 600 |
| attagctgaa | acacaaggaa  | agctagaaga | aaaacttcag | gagttggaag | cgaatcccc  | 660 |
| aagtgatgta | tatctctcat  | caagagacag | acaaatactt | gattggcatt | ttgcaaatct | 720 |
| tgaatttgct | aatgccacac  | ctctctcaac | tctctccctt | aagcactggg | atcaggatga | 780 |
| tgacttttag | ttcactggca  | gccacctgac | agtaaggaat | ggctactcgt | gtgtgcctgt | 840 |

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ggcttttagca gaaggcctag acattaaact gaatacagca gtgcgacagg ttcgctacac      900
ggcttcagga tgtgaagtga tagctgtgaa taccgcctcc acgagtcaaa cctttattta      960
taaatgcgac gcakttctct gtacccttcc cctgggtgtg ctgaagcagc agccaccagc     1020
cgttcagttt gtgccacctc tccctgagtg gaaaacatct gcagtccaaa ggatgggatt     1080
tggcaacctt aacaagggtg tgttgtgttt tgatcgggtg ttctgggatc caagtgtcaa     1140
tttgttcggg catgttggca gtacgactgc cagcargggt gagctcttcc tcttctggaa     1200
cctctataaa gctccaatac tgttggcact agtggcagga gaagctgctg gtatcatgga     1260
aaacataagt racgatgtga ttgttggccg atgcctggcc attctcaaag ggatttttgg     1320
tagcagtgca gtacctcagc ccaaagaaac tgtggtgtct cgttggcgtg ctgatcccta     1380
tgttgctgca ggatcatctg gaaatgacta tgatttaatg gctcagccaa tcaactctgg     1440
ccccctgatt ccagggtgcc cacagccgat tccacgactc ttctttgctg gagaacatac     1500
gatccgtaac taccagacca cagtgcattg tgctctgctg agtgggctgc gagaagcggg     1560
aagaattgca gaccagtttt tgggggccat gtatacgctg cctcgccagg ccacaccagg     1620
tgttcctgca cagcagtcct caagcatgtg agacagatgc attctaaggg aagaggccca     1680
tgtgacctgt tctgccatgt aaggaaggct cttctagcaa tactagatcc cactgagaaa     1740
atccacctg gcactctgggc tcctgatcag ctgatggagc tcctgatttg acaaaggagc     1800
ttgcctcctt tgaatgacct agagcacagg gaggaacttg tccattagtt tggaattgtg     1860
ttcttcgtaa agactgaggc aagcaagtgc tgtgaaataa catcatctta gtcccttggt     1920
gtgtggggtt tgtttttttt ttttatattt tgagaataaa acttcatata aaattgaaaa     1980
aaaaaaaaaa aaaaaaaaaa actcga                                           2006

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```

<210> 17
<211> 545
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> SITE
<222> (530)
<223> n equals a,t,g, or c

```

```

<220>
<221> SITE
<222> (540)
<223> n equals a,t,g, or c

```

```

<220>
<221> SITE
<222> (545)
<223> n equals a,t,g, or c

```

```

<400> 17
gaattcggca cgagatggaa aacaccttct ttgtcttctt ggtgtcagcc ctgctgctgg      60
ccgtgatcta cctcaacatc cagggtggtgc ggggccagcg caaggtcacg tgctgtctca     120
aggagcagat cagcaatgag ggtgaggaca aaatcttctt aatcaacaag cttcactcca     180
tctacgagag gaaggagagg gaggagagga gcagggttgg gacaaccgag gaggctgcgg     240
caccctctgc cctgctcaca gatgaacagg atgcctaggg ggacggcgat gggcctcacg     300
ggccsgccca gcacctgag accacactgt tgctctccag tgacctgctg gggacaccag     360
gacaaggaag acagtttcgc ctctcgaaag ccgcagctgc gcctaggctg gagctggaag     420
ggtgggtgaa tccggcttgg gcatcccca tgaactctgc cctgcctggg actctattta     480
ttctgattaa aggggttttg caaatgaaaa aaaaaaaaaa aaaaaaacn  cggggggggg     540
ccggn                                           545

```

```

<210> 18
<211> 602
<212> DNA

```

<213> Homo sapiens

<400> 18

|            |            |            |             |            |            |     |
|------------|------------|------------|-------------|------------|------------|-----|
| gaattcggca | cgagtgcctt | gggttcgat  | tgataccac   | tcttgtgtt  | caaaagagag | 60  |
| atgagtgtg  | cttctttttg | gccccggcct | gtggcaagta  | tctcagtctt | catactgctg | 120 |
| ggaagctctg | taaccaccag | caagaccaga | agtgggtga   | tcagcagtgc | aggaaagccc | 180 |
| atttggtg   | agtcctcgca | cctagccctt | ttggaagtgc  | ttctccaaa  | gggaattgtg | 240 |
| ccggaaaagt | agggattgaa | accaaacagc | cacatcctgc  | catcaggatg | ctctttatgg | 300 |
| ccccactgac | caagaaatca | cagcttctgt | actcagtgat  | gactgcttga | cttcagtgtg | 360 |
| ggaaaacaat | gaagtctctg | agccaggcgt | gggtggcagat | gtctgtaatc | ccagctactc | 420 |
| gggaggctga | ggcaagagaa | ttgcttaaac | cccgggaggt  | ggaggttgca | gtgagccgag | 480 |
| atggcgacac | tgactccagc | ctgggtgcc  | gagcgagact  | ctttgtctca | aaaaaaaaaa | 540 |
| aaaaaaaaaa | aaaaaaaaaa | aaaaaaaaaa | aaaaaaaaaa  | aaaaaagaaa | aaaacggcac | 600 |
| ga         |            |            |             |            |            | 602 |

<210> 19

<211> 587

<212> DNA

<213> Homo sapiens

<400> 19

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| ggctgcagga | attcggcacg | agtaaggcta | tataaacggg | aagttaagta | ttaatagaat | 60  |
| ccagtgtgac | taacaaggga | tatcgagttc | ttcagacctg | tggtatacat | aataagcttg | 120 |
| aagaatttgt | gcacaaaagt | cttaactgtt | ttgcagcctt | ggttgtggtt | agatgctgta | 180 |
| gttttctaag | ctactacatg | ttgtaaccag | cttggtagat | ttaacctagt | aataagatgc | 240 |
| ttagtttaac | tgtagtttta | aagtcagttt | ctatagcggc | acagtcttta | tttttgacc  | 300 |
| ttcactttcc | aatccagatg | acacttgtcc | ataaagaaat | tgctaaactt | gagacctaaa | 360 |
| aacaaaacaa | aaaacaaaaa | aactacagac | aagtaacctt | taaaattatt | tcgcttgatg | 420 |
| gaaatttacc | ggaaggcttt | aaccaattca | gtttgcttag | actcataaag | aaaattatga | 480 |
| taatgtctag | gtaaacctta | gcaaacattt | ttttgtgtaa | attatactat | agtacataaa | 540 |
| attgaaatat | tgctgattta | atgtaaaaaa | aaaaaaaaaa | aactcga    |            | 587 |

<210> 20

<211> 644

<212> DNA

<213> Homo sapiens

<400> 20

|            |            |            |            |             |            |     |
|------------|------------|------------|------------|-------------|------------|-----|
| aattcggcac | gagagattac | atccctcctg | tgttcacacc | ccaccatgac  | tttacaatga | 60  |
| tcttacagtg | caagagtctt | tacaagaccc | tacaatacat | gatcttcctc  | gcagcatttt | 120 |
| acctctcccc | tatttcttaa | tacacttctt | cttcactctg | ggccagctac  | actaaccttc | 180 |
| ttgttgtttc | ttgtatactt | atcagacaca | ttcttccttc | aagctatttg  | tatttgctat | 240 |
| tccttcaa   | aatcttatag | cttggtctta | acatccttca | aaccattgct  | cagatgtaca | 300 |
| cttcacatg  | actctttacc | ttaacactaa | caaaaataaa | ccgtctgccc  | tgtactctct | 360 |
| ctttttctgc | tttatttcca | ccccatatac | ttatggcctt | caaataatgct | ataaatgttt | 420 |
| ttttatttat | atttttgtta | tctgtctcta | ctaaaaatac | aaaaattagc  | tgggtgtgct | 480 |
| ggctggcacc | tgtaatccca | gctacttggg | aggcttaggc | agaagaatca  | cttgaacctg | 540 |
| ggaggcagag | gttgacgtga | gctgagatcg | cgccactgta | ctccagcctg  | ggcaacagga | 600 |
| gtgagatccg | tctcaacaaa | aaaaaaaaaa | aaaaaaaaaa | tcga        |            | 644 |

<210> 21

<211> 1257

<212> DNA

<213> Homo sapiens

```

<400> 21
aggaaatgct ttgggatgag tctattcttg gattttgaat gtttagtttt gtttacccaa      60
ggttgaattg aaaaaaaaaa acagtcaata tggattttaga aaaaggaaca cctgatgaag      120
aaaaggagag gtagatacag tcagtgtcac ttcaggacac ttaggttttt tttgtataaa      180
aatttaaatt gaattaaaag aaggaaaaaa aaagcccaaa cttaacctct gagaaagaac      240
ataagaactc aaggagaaca taagagaaaa ggaaacctgt tacagaaaag acaagaatct      300
gtgttttgga atgagcttat tcttgggtat tgaactttta gttttgtttg cccaaggatt      360
aattgaggaa atcagctaag aaaatggact ttagacaaaa gcaagaggat cagatgaaga      420
aaaggagagg tagatacagt cagtgtcact tcaggaaagc tatttaaaaa aacttgaaat      480
ttaactgaaa gaagaaacaa caacaaaaaa gcctaaacct agcctctgaa caacactaac      540
atgagaacac aagaacttaa gagaaaaaga aacctactca agaaaagaca gaagagacag      600
tgatttggga tgagtctact ctaggatttt caacttttta gttttgttcc ttcaaagtg      660
aaggaaaaaa agtttggttt tataaaattc atgttattgt aatttttcta ggtggatggc      720
tattttaatc tctaaaaaag ccaagtgaag taaaagtatt cagtatgcct tttcctcaag      780
ttacttttct tcatTTTTctt aaaaaaaraa aaaaattatt aaatgtttct cacatatctc      840
acatataatg taatttccct aaatgaagtt gtctctactt ctgctcatca aattgctgtg      900
atagtgaatt atttattcat gggagataat ttatttttaa ggacagaatt accaagcgtt      960
acaaaatcag ttcttttctt ggttttgtgt tagtggtggg ggtattttat tgttgttttt      1020
ctgtgtttat gtgtctcagc tttctccaag gaatatgtat gaaataactt aaactgattt      1080
tttctttgtt aaatctaatt tgcagtgtat ttttgcattt tctagttctg aaagtggaaa      1140
atgaaacagt ctataataaa cttagatgat atatagtttt aaaacggctc caaaaagtac      1200
tgatataagg tcagtctata ttctggaaat gtttatatta aagtgtttta atttcta      1257

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```

<210> 22
<211> 541
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> SITE
<222> (2)
<223> n equals a,t,g, or c

```

```

<400> 22
gntccaatTT cattttaaaa gatgtagaaa gaagaatcaa gcatcaatta attataaagc      60
ctaaagcaaa gttagatttg ggggttattc agccaaaatt accgttttag accagaatga      120
atagactaca ctgataaaat gtactggata atgccacatc ctatatgggtg ttatagaaat      180
agtgaagga aagtacattt gtttgccctgt cttttcattt tgtacattct tcccattctg      240
tattcttgta caaaagatct cattgaaaat ttaaagtcac cataatttgt tgccataaat      300
atgtaagtgt caataccaaa atgtctgagt aacttcttaa atccctgttc tagcaaacta      360
atattggttc atgtgcttgt gtatatgtaa atcttaaaat atgtgaacta ttaaatagac      420
cctactgtac tgtgcttttg acatttgaat taatgtaaat atatgtaatc tgtgacttga      480
tattttgttt tatttggcta tttaaaaaca taaatctaaa aaaaaaaaaa aaaaaactcg      540
a                                                                                   541

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```

<210> 23
<211> 567
<212> DNA
<213> Homo sapiens

```

```

<400> 23
gaattcggca cgagctggat tctttttttg tctctaacaa aatatctaaa gaaaaccgaa      60
aacatgctcc gtataaaaag ttgtctctta ttaTTTTTTT ttttttttcc atttaacatt      120
aaagactctc aagtacctgc caattatatt gccacatttt ctaggaaatg cagcttttag      180
caattctttg ttgattcaaa tgaaatcaac ctagctcagc taatattaat tgattagatt      240
gagaataaag tcctaatacc aaaggctgac caagagaaaa tgcttgaaat cagatgttga      300

```

|            |            |             |            |             |            |     |
|------------|------------|-------------|------------|-------------|------------|-----|
| ctgattcagg | ccggttctat | cagtttgggc  | aagttgctag | ggagtggaca  | ggaagcttga | 360 |
| ggacatcaca | aaagaatcca | taaaggaccc  | atgatgcatt | gagagacaga  | tacataagaa | 420 |
| tggctgggca | tagtagaaca | gatctgggtat | cattacagta | aatctccatt  | atatggagtt | 480 |
| atctagaaac | attatcttcc | ttgctggctg  | aagaaacata | gtaccctctcc | aactaccctc | 540 |
| aaacaaaaaa | aaaaaaaaaa | actcgta     |            |             |            | 567 |

<210> 24  
 <211> 586  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (1)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (28)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (550)  
 <223> n equals a,t,g, or c

|            |             |            |             |            |            |     |
|------------|-------------|------------|-------------|------------|------------|-----|
| <400> 24   |             |            |             |            |            |     |
| nccgetctta | gaactagtga  | tcccccgngc | tgcaggctgg  | ggggctccgg | ttccctgagg | 60  |
| gatgagcctt | cagcctccct  | ttgtaatgct | gctcctctcc  | actgcccagc | accatgagtt | 120 |
| gggtgcagac | acctagaagg  | agagacttct | tggaaagctc  | atcccccgct | atacctcccc | 180 |
| ttcctcctgc | atctccccct  | ctttccttcc | ccctcaggag  | agagaaaact | tagtgcttcc | 240 |
| agcccttctt | ggagccttca  | tggtccaggg | gtagggggcc  | cactggcctg | agcatgccat | 300 |
| tttgagggga | gggtagtgtg  | gcctacttat | cccctggcag  | aggggatgce | aggaccatgg | 360 |
| acatgaggct | tgcccatccc  | tgccaaacta | cacagcctgt  | accactgtcc | cccccttctt | 420 |
| ggctactttg | acatgtgcct  | gctcctggga | tttcaataaa  | acccggcctt | ggtctgaaaa | 480 |
| aaaaaaaaaa | aaaaaaactc  | gagggggggc | cgggtamccaa | ttcgccttat | artgaatcgt | 540 |
| attaaaattn | aatgggagggt | cgttttacaa | agtcgtgact  | gggggaa    |            | 586 |

<210> 25  
 <211> 1510  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (39)  
 <223> n equals a,t,g, or c

|            |            |            |             |            |             |     |
|------------|------------|------------|-------------|------------|-------------|-----|
| <400> 25   |            |            |             |            |             |     |
| aggcgacgtg | ggccagatct | tctcctgccc | cctgcaggnc  | accaacaact | tcttcggcgc  | 60  |
| cgggcagaac | aagcggccgc | caagctgggc | magatcggcc  | ggagcaagcg | ggttggttatt | 120 |
| gaagatgata | ggattgatga | cgtgctgaaa | aatatgaccg  | acaaggcacc | tcctggtgtc  | 180 |
| taactcccc  | aaagacaatg | agttaaggga | gagaataaga  | acggcggtaa | cagttattgg  | 240 |
| caaaaagcat | gaaaagagaa | agcactttga | aattttattac | tagcttgcta | cccacgatga  | 300 |
| aatcaacaac | ctgtatctgg | tatcaggccg | ggagacagat  | gaggcgagag | gaggaggagg  | 360 |
| aggaggagaa | ggctctgggc | tcctctgcaa | aaataaaaaat | aaaaaaataa | ataaaatttt  | 420 |

|             |             |              |             |             |             |      |
|-------------|-------------|--------------|-------------|-------------|-------------|------|
| aaaaataata  | aaaattcact  | atatacacat   | ataaagaaat  | aaaaagaagt  | ctcagttgca  | 480  |
| gctatattgtc | aaaattaata  | tccattttctt  | tttatatacg  | gtgaatattg  | cgcaattata  | 540  |
| gatctggatt  | ttgaaccact  | taatgaagcg   | gcaacaccag  | gtgtttttgag | gtgttggcat  | 600  |
| tcttcgctga  | tttggtctgtt | cccaatgttt   | acattattta  | atcttgcaaa  | aatggttctg  | 660  |
| tgcacttgga  | tgtgaaatgc  | tgtccagttt   | tatttttttt  | atgttgttat  | ccttggatgt  | 720  |
| acaaaaaatt  | cagaaaatga  | tctctgtaga   | tattctgttt  | tatttttggtc | atcttttagaa | 780  |
| gttatcagga  | atgtgtttta  | aacaagaaga   | gaacttttct  | aaggaatgat  | acatagaaaa  | 840  |
| gattttatatt | taaaatgagt  | tgtaaagctt   | gtgtttcttt  | gttgctgcaa  | gctatctgcc  | 900  |
| caagttaatg  | caaatggaca  | cattttttat   | gtcagaaaaa  | cacacacaca  | cacacacaca  | 960  |
| cacacacaca  | cacacacaca  | cgaaaaacaa   | agaaaaaaat  | gcttgagctt  | tttctaactt  | 1020 |
| ccccttgcat  | tctgttggtg  | gagcagcctg   | tttatttctc  | taatattatg  | tcagtttatt  | 1080 |
| ctctttaatg  | gactgtaaaa  | aaatgtaatc   | acaagagtgc  | caaatatctt  | gaaatgccaa  | 1140 |
| aaggcatttt  | agtttctttt  | ctctgtgctc   | tgagtccacg  | tacaggaatg  | cttggagtgt  | 1200 |
| cttttctggt  | atttataggg  | attctcttaa   | ggcacaccag  | ctgcctgttt  | tgcattggtat | 1260 |
| ttgcaaaaaat | gcctcttgctg | tgaggaaaatc  | ttttaccatt  | ttttgtttgc  | aactttggac  | 1320 |
| ctcaagaggt  | ttcccttccc  | ttcccctgctc  | cctcttttct  | taattcaata  | ttctgtatgt  | 1380 |
| tgcaccttga  | accagcacac  | agggctatatt  | ctccaatgta  | caataaaaaga | attgttcctg  | 1440 |
| tgtctcaaaa  | aaaaaaaaaa  | aaaaaaaaactc | gaggggggggc | ccgtacccaa  | tcgcctratg  | 1500 |
| atcgtatagc  |             |              |             |             |             | 1510 |

&lt;210&gt; 26

&lt;211&gt; 1014

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 26

|            |             |            |             |            |            |      |
|------------|-------------|------------|-------------|------------|------------|------|
| aattcggcag | agatttaactg | aagttcagcc | acctgccact  | cctgactgca | tggaagccag | 60   |
| gtgcaaggag | aaaggattttt | raggagggga | ctccatggct  | tccgagttgc | tgactgacct | 120  |
| tccacctcag | aggtagttct  | gacactgtct | cagtttttgca | gatgaagatg | agattcttca | 180  |
| gttctccatg | tggaaaagca  | gctgtggacc | cagccgaccg  | ctgtaaggag | gtacagcaga | 240  |
| tccgcgacca | gcaccccagc  | aaaatcccgg | tgatcatcga  | gcgctacaag | ggtgagaagc | 300  |
| agctgcccgt | cctggacaag  | accaagtttt | tgggtcccga  | ccatgtcaac | atgagcgagt | 360  |
| tggtaagat  | catccggcgc  | cgcctgcagc | tgaacccac   | gcaggccttc | ttcctgctgg | 420  |
| tgaaccagca | cagcatgggtg | agtgtgtcca | cgcccatcgc  | ggacatctac | gagcaggaga | 480  |
| aagacgagga | cggtttcctc  | tatatgggtc | acgcctccca  | ggaaaccttc | ggcttctgag | 540  |
| ccagcagtag | gggggctcgg  | cctgggagtc | ggggggcccc  | ggtcaggccc | tgcccagaga | 600  |
| gctcctggtt | cctgaactga  | gctgcctcta | ccgtggtggg  | ctgggcaggc | atgtgcccc  | 660  |
| ctagtcagag | ggcaccaacc  | cacctaytct | gcccctgggt  | ggatcctggg | ccggtcgtgt | 720  |
| taggggtgtc | cctctgggtg  | ctggctgggt | ggatggggga  | gggtggggag | cagctcccat | 780  |
| cacccctgct | gtgtggttca  | tctttttttt | aggcccctgc  | ctgtctgccc | atctgcccct | 840  |
| cacccacccg | aggtctgtgc  | caccgcctgg | acctgccac   | ccctgaaaga | ctggcccctg | 900  |
| gctccccgcc | cctcggtctc  | cacgtggtgt | atggatctgt  | ggtcattgtc | cctctgcaga | 960  |
| ataaagattg | ctcaggcctg  | cctggaaaaa | aaaaaaaaaa  | aaaaaaaaaa | actc       | 1014 |

&lt;210&gt; 27

&lt;211&gt; 1273

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 27

|             |            |             |            |            |            |     |
|-------------|------------|-------------|------------|------------|------------|-----|
| tccccggggc  | ctgcaggaat | tccgcagacc  | cgrctgtaaa | gatggcggct | tcctagttag | 60  |
| tccgcgggctg | atttagaagg | aggttcaggc  | tacggtgagc | cgaagggagg | attctggctt | 120 |
| cccctgtccg  | tgttccatct | agccacacag  | gagccatgga | agtggcagag | cccagcagcc | 180 |
| ccactgaaga  | ggaggaggag | gaagaggagc  | actcggcaga | gcctcggccc | cgcactcgct | 240 |
| ccaatcctga  | aggggctgag | gaccgggcag  | taggggcaca | ggccagcgtg | ggcagccgca | 300 |
| gcgaggggtga | gggtgaggcc | gccagtgtctg | atgatgggag | cctcaacact | tcaggagccg | 360 |



|             |            |             |             |            |            |      |
|-------------|------------|-------------|-------------|------------|------------|------|
| gccctaagtc  | ctggcaggtg | ccccgcccag  | cccctgaggt  | ccaaattcgg | acaccaaggg | 420  |
| tcaactgtcc  | agagaaagtg | attatctgcc  | tggacctgtc  | agaggaaatg | tacttgccaa | 480  |
| agctggagtc  | gttcaacggc | tccaaaacca  | acgccctcaa  | tgtctcccag | aagatgattg | 540  |
| agatgttcgt  | gcggacaaaa | cacaagatcg  | acaaaagcca  | cgagtttgca | ctggtggtgg | 600  |
| tgaacgatga  | cacggcctgg | ctgtctggcc  | tgacctccga  | ccccgcgag  | ctctgtagct | 660  |
| gcctctatga  | tctggagacg | gcctcctggt  | ccaccttcaa  | tctggaagga | cttttcagcc | 720  |
| tcattccagca | gaaaactgag | cttccgggtca | cagagaacgt  | gcagacgatt | ccccgccat  | 780  |
| atgtggtccg  | caccatcctt | gtctacagcc  | gtccaccttg  | ccagccccag | ttctccttga | 840  |
| cggagcccat  | gaagaaaatg | ttccagtggc  | catatttctt  | ctttgacgtt | gtttacatcc | 900  |
| acaatggcac  | tgaggagaag | gaggaggagg  | atgaagccat  | tgaggttgag | gccactgtct | 960  |
| gaaccatccc  | tgtacatctg | caccttcttg  | tgcaaggaag  | tccttggcct | aaagccttgg | 1020 |
| ttctcaaact  | gggttccttg | ggacctccgg  | gggtggggggg | ttccaggagg | cacgtagggg | 1080 |
| accttgcag   | gtcctaggag | ggaaacccag  | gattccagga  | gggatcccag | gaactgtggg | 1140 |
| caccattttt  | ctgtgtctcc | cagcccattt  | ccactcctag  | tttgtcatgg | ataatttttg | 1200 |
| ttcttccttg  | tgtgattttt | gccatcaaaa  | taaaaatttg  | agactcgtta | aaaaaaaaaa | 1260 |
| aaaaaaaaact | cga        |             |             |            |            | 1273 |

&lt;210&gt; 28

&lt;211&gt; 780

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 28

|            |             |             |            |             |            |     |
|------------|-------------|-------------|------------|-------------|------------|-----|
| gaattcggca | cgagcggacg  | ggacagggga  | cctggctggt | gagctgtcca  | agaccgaccc | 60  |
| ggcgagcctg | gagacaggcc  | aggacagtga  | ggatgactca | ggcgagccag  | aggactgggt | 120 |
| cccgagacct | gtggatgccg  | atccagggtta | gcttgcccca | catggteccct | ttcaccagt  | 180 |
| tggggggcgc | ttcagccagg  | ccgtccgctc  | tggactcacc | ccttgteaca  | gagcttggt  | 240 |
| gtgtcaggtg | tcgctagtgt  | ctcagaggct  | tgagggtgtc | aaaggtcagg  | gcagtgtctc | 300 |
| gccacctgcc | agcctgggca  | ggccgggtgat | gggtgttttt | cctctgtggc  | tggtcactct | 360 |
| ggccgtgggg | gatgccctgc  | ctcccaccgc  | ttgtgagctg | tgggggtgtc  | ctgccccgcc | 420 |
| actgcacctg | gcagaggagt  | gaagatgtgg  | gtgacctctg | agctctgtac  | tgatttgggc | 480 |
| ctcaaagtcc | cgttaggggtg | ccagctcctg  | ctcagagccc | atctgtgcct  | ggccctcgtc | 540 |
| tgcgagggct | ctgagggctg  | tggggcccag  | gcctggcccc | tgccctggca  | cagatggtaa | 600 |
| gtcttcaaca | catctttagt  | ctctctcaga  | ggaaaacccc | aggacctttg  | gcttgcctcc | 660 |
| taagcctgca | tgggagtccc  | ggaagggtccc | tgtgggggtg | gaggggctgg  | ggattgaagc | 720 |
| tgttgctcca | ggacctgact  | ccagggtctc  | cgggaggctc | agggtgctc   | ccagcctcga | 780 |

&lt;210&gt; 29

&lt;211&gt; 819

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 29

|            |            |            |             |            |             |     |
|------------|------------|------------|-------------|------------|-------------|-----|
| gaattcggca | cgaggagaat | catgggcctc | tggctgggca  | tgctggcctg | tgtcttccctg | 60  |
| gcaactgctg | cctttgtttg | ttatactgcc | cggctggact  | ggaagcttgc | tgagaggag   | 120 |
| gctaagaaac | attcaggccg | gcagcagcag | cagagagcag  | agagcactgc | aaccagacct  | 180 |
| gggcctgaga | aagcagtcct | atcttcagt  | gctacaggca  | gttccccctg | cattaccttg  | 240 |
| acaacgtatt | caaggtctga | gtgccacgtg | gacttcttca  | ggactccaga | ggaggccccc  | 300 |
| gccccttcag | ctcctaccag | cagactatca | gtgaaacagc  | tggtcatccg | ccgtgggggt  | 360 |
| gctctggggg | cggcgctcag | acactgatgg | tgggggtcac  | ggtcaggatc | ctagccacca  | 420 |
| ggcactagca | aagaagcttg | gaaatagaaa | gccaggagt   | gctgtcccca | gtatgcaaac  | 480 |
| acaccacggt | ctgccctgca | aaaacaccaa | tgggggtctag | tgaggttgga | cactttgaac  | 540 |
| cactcctcaa | aaaaagaact | ttggctgaty | ccttggtggt  | acactcagag | gggtctgaac  | 600 |
| agacttgaca | attctgtttc | ggtcaagctg | gagttttctt  | ctgtgacttg | gactgctcta  | 660 |
| cagaagacat | cagccaactg | cacgagtcag | agtccaggga  | ttgtcactat | tattaataat  | 720 |
| gtaaatggct | tcaaatggga | cactgcagat | aammycacia  | aaaccactgt | tatatataag  | 780 |

attacacatt tcctggaaaa aaaaaaaaaa aaaactcga

819

<210> 30  
<211> 608  
<212> DNA  
<213> Homo sapiens

<400> 30  
gaattcggca cgagcttcac tccttggtcc ctctcctgca cacacacaca cacacacaca 60  
ccccaggaga ctctacccca actcagccct aaccagccg aacaaccttc agtggctccc 120  
cagtgcctga agaatatgat ccaaactttc cctgcctacc tctgtcttcc cctttttttac 180  
gtgctggacc tggcccttgc ttctgctcct gtactttctc attcagctct cctctgacat 240  
gttttcttcc ttccccacaa ggccagcaaa aatatcacct cctccaggaa gtcctccatg 300  
accagtgagc wcaccaggaa cttctgcttt tgagccccc gaaagagcca tgctgcagaa 360  
gtctcccat gctgcttcta acccaaataa agtacaggag aggagttcag gaaaaagtct 420  
agagccaggc acagcagtac acgcctctac tctcagctam tcgggaggct gaggtgggag 480  
gattgcttga acccaggagt ctgaggctgc tatgcaytat gatcacacct gtgattagcc 540  
actgtactcc agcctgggca acatagcaag aacctgtttc ttaaaaaaaa aaaaaaaaaa 600  
aactacga 608

<210> 31  
<211> 1217  
<212> DNA  
<213> Homo sapiens

<400> 31  
cgttacacat gacaccagtg cctttgtttc attgggctgg gctctctgga aggtgtgctg 60  
ctgcctgagc tgctggaaaa gcactgacag gtgtttgcta gaaaagcact cctggagctt 120  
gccaccagct tggacttcta gggactttcc tctcagccag gaaggatttt gatattcatc 180  
agaaatacct ccagaagatt caaggagctg tagaggtgaa gtaagcctgt gaaggaccag 240  
catgggaatc ctatactctg agcccatctg ccaagcagcc tatgcagaat gactttggac 300  
aagtgtggcg gtgggtgaaa gaagacagca gctatgccaa cgttcaagat ggctttaatg 360  
gagacacgcc cctgatctgt gcttgaggc gagggcatgt gagaatcgtt tccttccttt 420  
taagaagaaa tgctaattgc aacctcaaaa accagaaaaga gagaacctgc ttgcattatg 480  
ctgtgaagaa aaaatttacc ttcattgatt atctactaat tatcctctta atgcctgtyc 540  
tgcttattgg gtatttcctc atgggtatcaa agacaaagca gaatgaggct cttgtacgaa 600  
tgctacttga tgctgggtgc gaagttaatg ctacagattg ttatggctgt accgcattac 660  
attatgcctg tgaaatgaaa aaccagtctc ttatccctct gctcttgga gcccgtgcag 720  
acccacaat aaagaataag catggtgaga gctcactgga tattgcacgg agattaaaat 780  
tttcccagat tgaattaatg ctaaggaaaag cattgtaatc cttgtgacca caccgatgga 840  
gatacagaaa aagttaacga ctggattcta tcttcatttt agacttttg tctgtgggcc 900  
atttaacctg gatgccacca ttttatgggg ataattgatgc ttaccatggg taatgttttg 960  
gaagagcttt ttatttatag cattgtttac tcagtcaagt tcaccatggc cgtaatcctt 1020  
ctaagggaaa cactaaagt gttgtagtct ccacttcagt cagaaactga tgtttcagct 1080  
aggcacagt gtacatgcct gtaatcccag ctacttgga ggctgagggt ggaggatcac 1140  
ttgaactcag gagtttgaga gcagccagg caacacagcg agaccctgtc tcaaaaaaaaa 1200  
aaaaaaaaa aactcga 1217

<210> 32  
<211> 765  
<212> DNA  
<213> Homo sapiens

<400> 32  
ccacgcgtcc ggtgaggtct catgtctgct tatgcggtgg ctgcgtgctc agaacagggg 60

```

accattggag atactcatta ctctttgaag gcttacagtg gaatgaattc aaatacgact      120
tatttgagga attgaagttg acttttatgga gctgataaga atcttcttgg agaaaaaaag      180
actggtagct ctgaattaac caaaatcaca gtattctgaa gatgattcta caaagcctgc      240
tgttttctaca aaggctgctg atgatttcta caaagcctgc tgtagtggtg ctgtggcctc      300
tgcttaaaaa agtagaaaac acattgatgc agcatgttca ccccaacctc cctgcctaaa      360
ggctcagggg ccatcttgga agaggaaggc gcgtgagatt gtaagagccg aattaggggg      420
atggagtgtg gagaataagg acacttcacg ttggatgctc acctgccaaa ttgacttctg      480
atgaaagcca gctccagaaa tgtgcctaca gttactactt tcacctaaac cctgccctta      540
gtcaaatacct tctcttcttc taagcaatca acttcaattc cttgtataac ccacagtata      600
aaagggtctt tataccattc tctcctattg catgtaagcc ttgggtctgg gaggtaacag      660
tgtgggattc caccatctca tctccctgcc acccaaacat gcctgctctt ctttaagcaa      720
tattaaatgt ttgtacttca gaaaaaaaaa aaaaaaaggg cggcc                        765

```

```

<210> 33
<211> 752
<212> DNA
<213> Homo sapiens

```

```

<400> 33
actgaacagt ggttaatcct gactctgttt ttgactgaca gttaacagtt acatgaacca      60
ttcatattac agctcttact taaatttgac caagccagga tatactctgt aggccacatt      120
catttaggga tcatgttttc caaagcaggt ttgggcaaaa ttaatccaca ggactgaaag      180
gtatacatct gtgagttttg ttctcacttc cacctctaatt ttgaagaaca ctttaattga      240
cacagaatac atttcacata tttaacctct acaataagtt ctgacacatt ttccatgaaa      300
caaaccatcg ctatattcaa gataatgaac ctatctatca tactcccaaa ttcttctctg      360
catctttgta atttctcact ctctcttctc cctctccccg tcccatccca accactgatc      420
tgctcaggca actaccaatc ttctttctgt cactatagat taatttgcatt ttttaaagaa      480
atttacatac atggaacatc acatcatcta tgctttgtag tatgactcct gtcactcagt      540
acaattatct tgagattcat ttatgttawt gtatgtatca atagtctatc ccttttattg      600
gtaagtaaca tttttttgta taggtatacc atgatttggt gatgaacaaa tttacctgtt      660
gatgaacatt tacgttggtt ccaagatttt tgctattgaa aataaagttt ttatgaatat      720
ttatatatat aaaaaaaaaa aaaaaaactc ga                                752

```

```

<210> 34
<211> 2265
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> SITE
<222> (300)
<223> n equals a,t,g, or c

```

```

<220>
<221> SITE
<222> (2162)
<223> n equals a,t,g, or c

```

```

<220>
<221> SITE
<222> (2258)
<223> n equals a,t,g, or c

```

```

<220>
<221> SITE
<222> (2265)

```

<223> n equals a,t,g, or c

<400> 34

|             |             |             |             |             |             |      |
|-------------|-------------|-------------|-------------|-------------|-------------|------|
| aaatctctca  | acaccacagt  | cakctwagtc  | acctactgcc  | accttcgaaa  | aacacggaga  | 60   |
| gcacctaccc  | agaggagaag  | gtagatttgg  | agtaagccgc  | cgtcgacata  | attcctctga  | 120  |
| tggttttttt  | aacaatggtc  | ccctacgaac  | tgcaggagat  | tcttggcacc  | agscctccct  | 180  |
| gttccgccat  | gattctgtgg  | actctgggtg  | ctctaaggga  | gcatatgctg  | gaatcacagg  | 240  |
| gaacccatct  | ggttggcata  | gctcttcccg  | aggtcatgat  | ggcatgagcc  | aacgtakggn  | 300  |
| aggtggcaca  | gggaaccatc  | gccattggaa  | tggcagcttc  | cactcccgga  | aaggggtgtgc | 360  |
| ttttcaggaa  | aagccaccta  | tggagattag  | ggaagaaaag  | aaagaagaca  | aggtggaaaa  | 420  |
| gttgcagttt  | gaagaggagg  | actttccttc  | cttgaatcca  | gaagctggca  | aacagcatca  | 480  |
| gccatgcaga  | cctattggga  | caccttctgg  | agtatgggaa  | aaccgccta   | gtgccaagca  | 540  |
| acctccaag   | atgctagtta  | tcaaaaaagt  | ttccaaagag  | gatcctgctg  | ctgccttctc  | 600  |
| tgctgcattc  | acctcaccag  | gatctcacca  | tgcaaatggg  | aacaaattgt  | catccgtggt  | 660  |
| tccaagtgtc  | tataagaacc  | tggttcctaa  | gcctgtacca  | cctccttcca  | agcctaattgc | 720  |
| atggaaagct  | aacaggatgg  | agcacaagtc  | aggatccctt  | tctcttagcc  | gggagtctgc  | 780  |
| ttttaccagt  | ccaatctctg  | ttaccaaacc  | agtggtactg  | gctagtgggtg | cagctctgag  | 840  |
| ttctcccaaa  | gagagtccct  | ccagcaccac  | ccctccaatt  | gagatcagct  | cctctcgtct  | 900  |
| gaccaagtgt  | acccgccgaa  | ccaccgacag  | gaagagtggg  | ttcctgaaaa  | ctctgaagga  | 960  |
| tgaccggaat  | ggagacttct  | cagagaatag  | agactgtgac  | aagctggaag  | atttggagga  | 1020 |
| caacagcaca  | cctgaaccaa  | aggaaaaatgg | ggaggaaggc  | tgatcatcaa  | atgggtcttgc | 1080 |
| cctccctgta  | gtggaagaag  | gggaggttct  | ctcacactct  | ctagaagcag  | agcacagggt  | 1140 |
| attgaaagct  | atgggttggc  | aggaatatcc  | tgaaaaatgat | gagaattgcc  | ttccctcac   | 1200 |
| agaggatgag  | ctcaaagagt  | tccacatgaa  | gacagagcag  | ctgagaagaa  | atgggtttgg  | 1260 |
| aaagaatggc  | ttcttgcaga  | gocgcagttc  | cagtctgttc  | tcccttggga  | gaagcacttg  | 1320 |
| caaagcagag  | tttgaggact  | cagacaccga  | aaccagtagc  | agtgaacat   | cagatgacga  | 1380 |
| tgcttgggaag | taggcatata  | aatgtctaca  | gttaaactctg | acccagtaaa  | ctctgtgtgt  | 1440 |
| ttagggagta  | tacaaaagaa  | atcgttcttt  | tccttttctt  | atgttgttga  | atacttcatt  | 1500 |
| cacaagggaa  | ataatcatat  | cccaaagaga  | gagcaattgg  | cttgttttgc  | ttttgttatt  | 1560 |
| gttcttccct  | gttatctgct  | ttatagagag  | aagtgtgtgt  | ggtgggacag  | attttttaa   | 1620 |
| cacactcaya  | cacacacaca  | catacacacc  | cagtatatat  | ggggcgatgc  | acaggtagga  | 1680 |
| gctggcagtg  | caggggaagag | gagacactgg  | tctgcagcaa  | cagcttctac  | taccagccct  | 1740 |
| tggggcactc  | acccctgtga  | tcaagcaatc  | attgtcaatg  | acaaagtgc   | tattgaagtt  | 1800 |
| ataattgtat  | taaattaatg  | ctaataattt  | ggatatttta  | ttttattttt  | ggctgctcgg  | 1860 |
| gtaacttttag | cccttaacca  | agcatatgtg  | ggtttttttg  | gttgtttttt  | tttgtttttt  | 1920 |
| ttttcttttt  | ccttttttggg | tacagctgta  | aaatatattgg | atataggaaa  | tgttgtgtta  | 1980 |
| ttcttgcagc  | cttgatattc  | aggggtggatt | gtaaaatata  | aatttttgtg  | agatttcaaa  | 2040 |
| gattaagatt  | attttgataa  | cattattttac | agatttataa  | gatgtgggta  | tcacaagtct  | 2100 |
| cgagggggaa  | actactgcac  | aaaataacta  | acttggaaata | aatattttgc  | atcagtttgg  | 2160 |
| aaaaaaaaaa  | aaaaaaaaaa  | aaaaaaaaaa  | aaaaaaaaaa  | aaaaaaaaaa  | aaaaaaaaaa  | 2220 |
| aaaaaaaaaa  | aaaaaaaaaa  | aaaaaaaaag  | gggggggncc  | cccn        |             | 2265 |

<210> 35

<211> 643

<212> DNA

<213> Homo sapiens

<400> 35

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| gaattcggca | cgagctgctg | tggggccaaa | cgcatcatga | aggaagctct | ccactggggc | 60  |
| cttttcagca | tgaagccac  | gggccacgtg | ctgcttcacc | tctgttacc  | tgcagcagct | 120 |
| cctcgatgcc | acagaggacg | ggcatcccc  | caagggcaag | gcctcatccc | tcaccccgac | 180 |
| ctgtctgaag | atactgcagt | gaaagcccaa | gccctagctt | tccccagtga | aggactagac | 240 |
| taggggcccc | acgctcaact | ggtagtggcc | acaagcctgg | cagctgtaga | gccgctaacc | 300 |
| tcccgacacc | tccctcacca | cacaggacct | tgagttagga | ggaggggctg | gaaacctggg | 360 |
| rtgggttggc | caaaggagaa | cctcaggctc | ctggcctggc | ccagctcctt | cctgccccaa | 420 |
| gtagcttagc | ccatccagac | tggctcctga | gtctgtccct | ccattggcat | gaagtctgcc | 480 |
| cctcagcagt | ccggcctcac | aggctgtact | ttcatgggtc | tctctacctt | ctggccccca | 540 |

tcccagaaca ttcgtgagtg aattcgcaag catactagca tgtgatatta gggagtttgc 600  
aataaaattat tgatgctgaa aaaaaaaaaa aaaaaaaact cga 643

<210> 36  
<211> 1302  
<212> DNA  
<213> Homo sapiens

<400> 36  
cctccggcgg gagccacctc tccggggcgc atcatckgc ccsscagtgc tgtccttatt 60  
cccagcccag tcaagagcta cccgggctgg ctagtcatgg gggagcccag tagagaggag 120  
tataaaatcc agtcctttga tgcagagacc cagcagctgc tgaagacagc actcaaagat 180  
ccgggtgctg tggacttgga gaaagtggcc aatgtgattg tggaccattc tctgcaggac 240  
tgtgtgttca gcaaggaagc aggacgcagc tsctacgcca tcattcaggc agagagtaaa 300  
caagcaggcc agagtgtctt ccgacgtgga ctctcaacc ggctgcagca ggagtaccag 360  
gctcgggagc agctgcragc acgctccctg cagggctggg tctgctatgt cacctttatc 420  
tgcaacatct ttgactacct gaggggtgaac aacatgcccc tgatggccct ggtgaaccct 480  
gtctatgact gctcttcccg gctggcccag ccagacagtt tgagcaagga ggaggaggtg 540  
gactgttttg tgctgcagct gcaccgggtt ggggagcagc tggagaaaat gaatgggcag 600  
cgcattggat agctctttgt gctgatccgg gatggcttcc tgctcccaac tggcctcagc 660  
tccctggccc agctgctgct gctggagatc attgagttcc gggcggcccg ctggaagaca 720  
acgccagctg cccacaagta ttactacagc gartctccga ctaggcytcc agatcagggc 780  
ttctcacca gcaactggct ttcttctacc cacctctaaa gctggcagtg gagtctctgc 840  
ctcaccaaa gacttttccc ttccagactt tgagtgtctt ccttctaga ctttcccatc 900  
tcctggtgag atgttttccc cttatgccgt ggtcctgccc tgagcccctt tccccaccac 960  
aaccaccac ggccaggcag agaagggcaa ctcccaagag ccactgcact gtgtaaccat 1020  
tagtgcaact actaccttgg tgcctcagtt taccatctg taaaatgggt aagcatagcc 1080  
actggtggga tattttggga tgtcaagggg tggaggcaga gcacaagtca caccagaaac 1140  
tgctttttat acattttgta taaggacaac tctggaaaca agcctatttc ctccagccag 1200  
tttactgaa tgctgcacca catgctacac cagttcagcg tgagaatttt ctaataaatc 1260  
ttttctgata ctaaaaaaaaa aaaaaaaaaa aaaaaaactc ga 1302

<210> 37  
<211> 2708  
<212> DNA  
<213> Homo sapiens

<400> 37  
agcggacgga ggagtcttct gccgtgcagt acttccagtt ttatggctac ctgtcccagc 60  
agcagaacat gatgcaggac tacgtgcgga caggcaccta ccagcgcgcc atcctgcaaa 120  
accacaccga cttcaaggac aagatcgttc ttgatgttgg ctgtggctct gggatcctgt 180  
cgttttttgc cgcccaagct ggagcacgga aaatctacgc ggtggaggcc agcaccatgg 240  
cccagcacgc tgagggtcttg gtgaagagta acaacctgac ggaccgcac gtggtcatcc 300  
cgggcaaggt ggaggaggtg tcaactcccc agcaggtgga catcatcatc tcggagccca 360  
tgggctacat gctcttcaac gagcgcagtc tggagarcta cctccacgcc aagaagtacc 420  
tgaagcccag cggaacatg tttcctacca ttggtgacgt ccaccttgca ccttcacgg 480  
atgaacagct ctacatggag cagttcacca aggccaactt ctggtaccag ccatctttcc 540  
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tggtggacac atttgacatc cggatcctga tggccaagtc tgtcaagtac acggtgaact 660  
tcttagaagc caaagaagga gatttgaca ggatagaaat ccattcaaa ttccacatgc 720  
tgcattcagg gctgggtccac ggctggctt tctggtttga cgttgctttc atcggtcca 780  
taatgaccgt gtggctgtcc acagcccga cagagcccct gacccactgg taccaggtgc 840  
ggtgcctgtt ccagtcacca ctgttcgcca aggcagggga cagctctca gggacatgtc 900  
tgcttattgc caacaaaaga cagagctacg acatcagtat tgtggcccag gtggaccaga 960  
ccggctccaa gtccagtaac ctctggatc tgaaaaacc cttctttaga tacacgggca 1020  
caacgcctc acccccaccc ggtcccact acacatctcc ctcggaacac atgtggaaca 1080

|            |             |            |             |             |             |      |
|------------|-------------|------------|-------------|-------------|-------------|------|
| cgggcagcac | ctacaacctc  | agcagcgggg | tggccgtggc  | agggatgccg  | accgcctatg  | 1140 |
| acttgagcag | tgttattgcc  | agtgggtcca | gcgygkgcca  | caacaacctg  | attccttttag | 1200 |
| ggtcctccgg | cgcccaggyy  | agtgggtggg | gcagcacgag  | tgccactat   | gcagtcaaca  | 1260 |
| gccagttcac | catggggcgg  | cccgcattct | ccatggcgtc  | gcccattgtc  | atcccgaacca | 1320 |
| acaccatgca | ctacggggagc | tagggggccc | ccccgcggac  | tgacagcacc  | aggaaaccaa  | 1380 |
| atgatgtccc | tgcccgcgcg  | ccccgcgggg | cggctttccc  | ccttggtactg | gagaagctcg  | 1440 |
| aacacccggg | cacagctctc  | tttgctatgg | gaactgggac  | acttttttac  | acgatgttgc  | 1500 |
| cgccgtcccc | accctaacct  | ccacctcccc | gccctgagcg  | tgtgtcgctg  | ccatatttta  | 1560 |
| cacaaaatca | tgttgtggga  | gccctcgctc | ccccctctgc  | ccgctctacc  | ctgacctggg  | 1620 |
| cttgatcatc | gctggaacag  | gcgccatggg | gcctgccagc  | cctgcctgcc  | aggtccctta  | 1680 |
| gcacctgtcc | ccctgcctgt  | ctccagtggg | aaggtagcct  | ggccaggcgg  | ggcctcccc   | 1740 |
| tgcacgacca | ggcctcggtc  | acaacggacg | tgacatgctg  | cttttttttaa | ttttattttt  | 1800 |
| ttatgaaaag | aaccagtgtc  | aatccgcaga | ccctctgtga  | agccaggccg  | gccgggcca   | 1860 |
| gccagcagcc | cctctcccta  | gactcagagg | cgccgcgggg  | aggggtggcc  | ccgccgaggc  | 1920 |
| ttcagggggc | ccctccccac  | caaagggttc | acctcacact  | tgaatgtaca  | acccacccca  | 1980 |
| ctgtcgggaa | ggcctccgtc  | ctcggcccc  | gcctcttgct  | gctgtcctgt  | ccccgagccc  | 2040 |
| ctgcagggtc | ccccccgccc  | ccccactcaa | gagttagagc  | aggtggctgc  | aggccttggg  | 2100 |
| cccgagggga | aggccactgc  | cggccacttg | gggcagacac  | agacacctca  | aggatctgtc  | 2160 |
| acggaaggcg | tcctttttcc  | ttgtagctaa | cgttaggcct  | gagtagctcc  | cctccatcct  | 2220 |
| tgtagacgct | ccagtcacct  | ctactgtgac | ggcattttcca | tcctcccc    | gcccgggaag  | 2280 |
| ggaccttgca | gggacctctc  | cctccaaaaa | aagaaaaaaa  | gaaaaagaaa  | gaaaaataa   | 2340 |
| atgaggaaac | gtgttgacgc  | acaggcagtt | ttcttctcct  | tctgctcccc  | tgtttctcat  | 2400 |
| acccccaaac | tcagatgctg  | gagctcaggc | ccgccgtgtg  | tgaccccagg  | caggagcggg  | 2460 |
| cgctgtccag | gctgggccgc  | ccccttggct | ctccctcctg  | ttccagggga  | gcataggag   | 2520 |
| ggaaagcagg | tgccccgggg  | gggatatggg | gccccagccc  | tgtcccaaag  | ctccctgtc   | 2580 |
| ggctgcccc  | cgccgcctt   | tatataaatt | ctctgaatca  | cctttgcata  | gaaaaataaa  | 2640 |
| gtgtttgctt | tgtaagaaaa  | gtctggaaag | taaaaaaaaa  | aaaaaaaaaa  | aaaaaaaaaa  | 2700 |
| aaaaaaaa   |             |            |             |             |             | 2708 |

<210> 38  
 <211> 608  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (73)  
 <223> n equals a,t,g, or c

|            |                                                               |     |
|------------|---------------------------------------------------------------|-----|
| <400> 38   |                                                               |     |
| ccctcactaa | ggggaccaaa agctggagct ccaccgcggg ggccggccgct ctagaactta 60    |     |
| gtggatcccc | cgngctgcag gaattcggca cgagaaacac tgaaattggg cagagtagaa 120    |     |
| gtcagcattt | agtgcagacca aataaaatta gtaattggga agctgctgtt tcctttgctt 180   |     |
| ttagctccat | tttctcccat aaacaaatat attcttctact ttgcaagaga tggagtagaa 240   |     |
| gaagttttga | aattttgtatc cttaaattagc ttcaagtaag tgccctaaaga gacctctttc 300 |     |
| ccttaaaacc | tgtaaatcag ttaaaggcgg ggaacactgg tgccctttttt tttttttttt 360   |     |
| taacttctta | accaagggac agtgaagact tttaagttag atctgatttt agaattgcag 420    |     |
| ttgaggtagt | gcctagtgtg tgaatttgag gtcattttct aaactggccg ggcacagtgg 480    |     |
| ctcatgcctg | taatcccagc actttgggag gccccaggtg gagaatcact tgagtccagg 540    |     |
| agtttgatac | cagcctgagc aacacaggga gaccccatct ctacaaaaaa aaaaaaaaaa 600    |     |
| aaactcga   |                                                               | 608 |

<210> 39  
 <211> 925  
 <212> DNA  
 <213> Homo sapiens

```

<400> 39
gaattcggca cgagagaaat tctgcccgcc tctgtaaggc acagtacaca cataagacat      60
gcttggtgta gctgtgatct ttcttcatgg cgctggggct atgaactatc taattgctaa      120
gattctggag gtgcagggcc tcaggagggt gccatgcaca tacaatacaa ggggtatagc      180
gccccctgga ggcaacgttg gatttgaagc agccagtgtg gtggacaggc cttgtgggca      240
gtgaggaggc ctgattctaa ccttggccct gcagagaact ccctggctat ggaactcagg      300
ggcagatctc accgaacttc tctgggcctc aaatccacat ctgtaaaagg aaggggttgt      360
actctcaatg gttctaaaac tcttctctt cctctgtccc ttcctttctg catcttcttg      420
gcagaatcct ttctcaaat cagtgtccg atagaccct aatacagtaa acagctgaag      480
gtggagagtc tctgttgga gtgggtcttg gcctaagcct ccctcattga cccatgatga      540
ctgcmcagaa gagatttcca aactcctccc agccctagca gttatgggtc cagggcctca      600
tactgagaa cagccccaca ccagtttact tttcattttt tagagtgagg gttttactct      660
gtcacctagg aggcggagggt cagaatgagt tgagatcaca ccactgcact tcagtctggg      720
caacagagtg aggcctctgtc tttaaaaaaa aaaaaaaaaa aagaaagggc tggctgtggt      780
ggctcactcc tgtaatccca atcccagcac tttgggaggc tgaggcgggc ggatcgctg      840
aggtcgggaa ttcaagacca gcttgaccaa tatggagaaa ccccgctctc actaaaaata      900
caaaaaaaaa aaaaaaaaaa tccgc                                           925

```

```

<210> 40
<211> 1219
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> SITE
<222> (3)
<223> n equals a,t,g, or c

```

```

<220>
<221> SITE
<222> (19)
<223> n equals a,t,g, or c

```

```

<220>
<221> SITE
<222> (90)
<223> n equals a,t,g, or c

```

```

<220>
<221> SITE
<222> (599)
<223> n equals a,t,g, or c

```

```

<400> 40
ggncacgagc cgcggcggn agtcggttcc cgtgacgcgg cgcgccccaa gggccggctc      60
cgttgaggga agggaagccc gcccggtggn ggctgggggc ggctgctggg aggaggtggt      120
gggctggttc ggacgtgggt cgaggctgta gcaggactcc aggaagatgt taccgagtac      180
ttcagtgaat tccttagtgc aggggaacgg agtcttgaat tccagggatg cggcaagaca      240
cacagccgga gcgaaacgct acaaatatct gagaaggctt ttccgctttc ggcaaattgga      300
ctttgaattt gctgcctggc agatgctcta cctgttcaca tccccacaga gagtttacag      360
aaattttcat tatcgaaaac agacgaagga ccagtgggcc agagatgacc ctgctttctt      420
ggtcctgtta agtatctggc tctgtgtgtc cactatagga tttggctttg tgctggacat      480
gggattcttt gagacaataa agcttctcct ttgggttgta ctcatagatt gtgtaggcgt      540
tggtcttctg atagcaactt taatgtgggt catctctaac aagtatttag tgaaacganc      600
agagcagaga ctatgatgtg gaatggggct atgcttttga tgtgcatctc aatgcttttt      660
atccactcct ggtcattttg cattttatcc agcttttttt catcaaccat gttatcctga      720

```

|            |            |            |            |            |            |      |
|------------|------------|------------|------------|------------|------------|------|
| cagacacatt | tattggatat | ttagttggaa | ataccttatg | gttggttgca | gttggttatt | 780  |
| atatctatgt | aactttcctg | ggatacagtg | cattgccatt | tttgaaaaat | acagtaattc | 840  |
| ttctgtatcc | atttgcacct | ctgattctgc | tctacgggct | ttccctggca | ctgggatgga | 900  |
| acttcaccca | tactctctgt | tctttctata | agtacagagt | gaaataaaaa | gtgagaagaa | 960  |
| gattcaatcg | taactgtgtc | aacagtattg | tgaagtgatc | atttcttgta | aaacttgtaa | 1020 |
| ataaactatc | atctttgtag | atatcttaaa | ggtgtaaagt | ttgcaaattt | gaagaaatat | 1080 |
| atattaacac | tgtggtcagg | tacattcctt | aaaactaatt | aatgtacat  | ttctataata | 1140 |
| aatatttttt | aaactaaaaa | aaaaaaaaaa | aaactcgagg | gggggccccg | tacccaattc | 1200 |
| gccctatagt | gagtcgtat  |            |            |            |            | 1219 |

&lt;210&gt; 41

&lt;211&gt; 1724

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (51)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (371)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 41

|             |             |             |             |             |            |      |
|-------------|-------------|-------------|-------------|-------------|------------|------|
| agaggggcta  | tgattcggag  | ggttctgccc  | cacggcatgg  | gccggggcct  | nttgaccggg | 60   |
| aggccaggca  | cgmgergagg  | aggcttttcw  | cwsqtattca  | caggcctcca  | ctgggctctc | 120  |
| agtaggtggg  | atttgtcagc  | agttctcatt  | gcctgagaac  | atccagctct  | ccctcttttc | 180  |
| agccagcttt  | ctacggaaca  | tcaatgagta  | cctggccgta  | gtcgatgctc  | ctcccctgga | 240  |
| cctccgggttc | aacccctcgg  | gtacactctt  | gctggcttca  | gaaaaggatg  | ctgcagccat | 300  |
| ggagagcaac  | gtgaaagtgc  | agaggcagga  | gggagccaaa  | gtttctctga  | tgtctcctga | 360  |
| tcagcttcgg  | naacaagttt  | ccctgggata  | aacacagagg  | gagtggcttt  | ggcgtcttat | 420  |
| gggatggagg  | acgragggtg  | gttttracccc | tgggtgtctgc | tccaggggct  | tcggcgaaag | 480  |
| gtccagtcct  | tgggagtctt  | tttctgccag  | ggagagggtga | cacgttttgt  | ctcttcattc | 540  |
| caacgcatgt  | tgaccacaga  | tgacaaagcg  | gtggtcttga  | aaaggatcca  | tgaagtccat | 600  |
| gtgaagatgg  | accgcagcct  | ggagtaccag  | cctgtggaat  | gcgccattgt  | gatcaacgca | 660  |
| gccggagcct  | ggtctgcgca  | aatcgcagca  | ctggctgggtg | ttggagaggg  | gccgcctggc | 720  |
| accctgcagg  | gcaccaagct  | acctgtggag  | ccgaggaaaa  | ggtatgtgta  | tgtgtggcac | 780  |
| tgcccccagg  | gaccaggcct  | agagactccg  | cttgttcgag  | acaccagtgg  | agcctatttt | 840  |
| cgccgggaag  | gattaggtag  | caactaccta  | ggtggtcgta  | gccccactga  | gcaggaagaa | 900  |
| ccggacccgg  | cgaacctgga  | agtggaccat  | gatttcttcc  | aggacaaggt  | gtggccccat | 960  |
| ttggccctga  | gggtcccagc  | ttttgagact  | ctgaagggttc | agagcgccctg | ggccggctat | 1020 |
| tacgactaca  | acacctttga  | ccagaatggc  | gtggtggggcc | cccacccgct  | agttgtcaac | 1080 |
| atgtactttg  | ctactggctt  | cagtggtcac  | gggtctcagc  | aggcccttgg  | cattgggcga | 1140 |
| gctgtagcag  | agatgggtact | gaagggcagg  | ttccagacca  | tcgacctgag  | ccccttcctc | 1200 |
| tttaccgcgt  | tttacttggg  | agagaagatc  | caggagaaca  | acatcatctg  | agcatgtgtg | 1260 |
| ctctgcactg  | gtctccactgg | cttgcatcct  | ggctgtgttc  | acagccttgt  | ttgtgtcttc | 1320 |
| catcttcccc  | agtactgtgc  | caggccttct  | ccccctcccc  | agtgtcctct  | cctctcaggc | 1380 |
| aggccattgc  | acccatatgg  | ctgggcaggc  | acaggcagtg  | aggccgaggc  | caatagcgag | 1440 |
| tgatgagcgg  | gatcctagga  | ctgatctgta  | gcccatgctg  | atgtcaccga  | ccagggcaat | 1500 |
| ccatctggag  | gcctgagcac  | cctggcccag  | gactggcttc  | atcctggcac  | tgaccaggaa | 1560 |
| agactgcctc  | tgacctctct  | agcagacaga  | gccaggcat   | gggagcactc  | tggggcagcc | 1620 |
| tggctcaggt  | ttattgattt  | tcgtctgttt  | accctatcca  | ttaatcaata  | catgtaatta | 1680 |
| actccttcaa  | aaaaaaaaaa  | aaaaaaaaatc | gcaggggggt  | cccg        |            | 1724 |



<210> 42  
 <211> 798  
 <212> DNA  
 <213> Homo sapiens

<400> 42  
 tcgacccacg cgtccgactt cggaaaactga ataagggtgat tagtgacctg actccagtca 60  
 gtgagcttcc cttaacagcc cgaccaaggt caaggaagga aaaaaataag ctggcttcca 120  
 gagcttgtcg gttaaagaag aaagcccagt atgaagctaa taaagtgaag ttatggggcc 180  
 tcaacacaga atatgataat ttattgtttg taatcaactc catcaagcaa gagattgtaa 240  
 accgggtaca gaatccaaga gatgagagag gacccaacat ggggcagaag cttgaaatcc 300  
 tcattaaaga tactctcggg tttgtcctac agcttagtat tgtgggttgac agcgatacta 360  
 gggctgacag cacagaagtc acaagagaag agtggaaggg caagaattca aagcatttgt 420  
 tcatacaatg tggcaacctc ttttgcatag ttgcgtagga tctgttttgt aatgctatca 480  
 taaatattct gtagtttttt ttttttctct cccaactgga gctatgacac tttttattgg 540  
 attcagtcct gtctcttggt tagaaagaac tttatcttgt tgacgcatga gctgtttaaa 600  
 aattatccta ttaaatgttg gttaatagtt gtgcagtttt tcatttcaga tggaaaggca 660  
 atgcaaattt tgcctttgtt ttctgtcacc ttccaacccc tgagcacttc tagtcagata 720  
 cagattcatc agtgtatgca acatcctttg taatttataaa taaaaaaga tgaaaaaaaa 780  
 aaaaaaaaaa gggcgggc 798

<210> 43  
 <211> 693  
 <212> DNA  
 <213> Homo sapiens

<400> 43  
 ggtcgaccca cgcgtccgca aaaaggaatg ctttccctaa tgtcccatct tcatgtccag 60  
 caacatttgt cttccatcct attgatacta atagtctttg ctttccctaa caatccattc 120  
 ctaaaccaat aactggcaag aaaaaataaga ttaccatgat tggctctagg ggttggcaaa 180  
 ctttttctta aagggcaaga cagtaaatat tttatgcttt gcagtctatc tggctctgt 240  
 tgcaactatt caactctgct gtaatagcaa caatagacaa taaataaata aataaataaa 300  
 tggatgtggc tgtatttttg taaaacttaa tttacagaag caggtggtaa gcccatgggc 360  
 catagtttgc taaccctcgg aaccttagac cagtaactct gaaacattag catttgtag 420  
 aatcmactgg ggacttggtt aaatacmaga tcccatcctg gktgctggtt cagcatattt 480  
 gggatagagc cagtgaattt gcattttctaa taatttccca ggtaatgctg aggctgtgaa 540  
 ttcaagaacc tcaactaaat atatttctct attgtggggc taccctgtgc attgtaggat 600  
 gtttcacagc atccctggcc tctaccact agatgccagt agccaccctg cctctcctct 660  
 agtatgacga gaaaaaaaaa aaaaaaggcg gcc 693

<210> 44  
 <211> 1358  
 <212> DNA  
 <213> Homo sapiens

<400> 44  
 ggcagagggg acaaacaaac aaaaaaggca aaattggagc tgtccaggcc aggacacccc 60  
 gatgtccagg ggcttccata cgaacaggca catgggctgg gaagtacatg aggcccctgg 120  
 gtagaagggt ctgtcagttc tctctctcct tgccctctgg ragggctctc ctaacatagc 180  
 ttccaggagg tgggaggagc agttactgtc agcagggtgc agccagggtg cagcttctcc 240  
 tggggatctc tagatgtctg cttgtgattt ttggcaagta tatgcaaagc agcctcctct 300  
 cctgccctga gacaagtatc tgcagtgtga acctggcagc ctcagaccca aggggctcag 360  
 aggaaacttc tctggtttct agagctctgt gtccttctag agaagtcttc cttccttcca 420  
 gtcagtgtcc ctgtgaagct gggatactca tttcctgtgt accgggcaaa caccggattg 480  
 ctgattttga gaaatgcctc tcgatggacc tgtaacctgc tggagtctgg gatggtagct 540  
 gtgggctgga cttggctgat gggatgaccc ggtggctagt gcagcatcac acaagcctgg 600

|             |             |            |            |             |            |      |
|-------------|-------------|------------|------------|-------------|------------|------|
| ttcaagtctt  | ggctgtgtca  | tttcctgctg | agggaccagg | cactgaattt  | cctacctctt | 660  |
| agggtcatta  | cctatgaggt  | taaagctacc | tcatgggatt | gttatacgcc  | actaatgttg | 720  |
| aggcagacac  | ctcttggcag  | ggtgactgct | catcttagac | cctccccctt  | tctgcgaatt | 780  |
| tgggccccct  | gacccctctga | tgggagctga | aaggatgaga | ggtgggcatc  | tagatttagg | 840  |
| gaggctgttc  | aggcttttga  | ggtcccttac | ctgaacacat | agaaaccctg  | gagctgtgac | 900  |
| tgtgtccatg  | tgtgtgtgtt  | tgtctgtgtg | tgttgcgggg | gatgggcacc  | tgcataaatg | 960  |
| tggtagagaa  | aatggctctg  | ctcagaggga | agatacgcat | agcaaggcag  | ggaccagagg | 1020 |
| aatcacaggc  | gcctggagag  | cagccgggca | ccgcctccag | ggacctgccg  | gcttccctca | 1080 |
| gtccctccagg | ggcccagcac  | tcttccctta | ggccctgtga | gcgtcccttg  | tcaggataca | 1140 |
| ttctctcatt  | ttgctgaagc  | tgatttgatt | gggtgtctgt | ttctcgcagc  | caaaagagct | 1200 |
| ctgaatgagg  | aaagtgtctc  | tgtgctaact | ccccgcgtct | cctgaatttc  | agtcattcat | 1260 |
| gtaccgcgct  | cgaaattttt  | gcaatatctg | tgtaccaact | gtccattttac | ttaataaaga | 1320 |
| agttttcttt  | aaattaaaaa  | aaaaaaaaaa | aaactcga   |             |            | 1358 |

<210> 45  
 <211> 965  
 <212> DNA  
 <213> Homo sapiens

|             |            |            |            |            |            |     |
|-------------|------------|------------|------------|------------|------------|-----|
| <400> 45    |            |            |            |            |            |     |
| caccaccatc  | tgtaccacac | ggggagttag | gatcaggcct | ccagggtgga | gccccasgag | 60  |
| cagaggaaga  | ggtggaagag | tcctcaccac | tgcaagagcc | accaagccag | gcagcaggca | 120 |
| ccacccctgg  | tccagaccct | aaggcctatc | agcttctatc | agcccgcagt | gcctgcctgc | 180 |
| tgggctgtgt  | ggcsgccacc | aacgcgctga | ccaatggcgt | gctgcctgcc | gtgcagagct | 240 |
| tttccctgct  | accctacggg | cgtctggcct | accacctggc | tgtggtgctg | ggcagtgtgt | 300 |
| ccaatccccct | ggcctgcttc | ctggccatgg | gtgtgctgtg | caggctcctg | gcagggctgg | 360 |
| gcgccctctc  | tctgctgggc | gtgttctgtg | ggggctacct | gatggcgctg | gcagtcctga | 420 |
| gccccctgcc  | gccccctggt | ggcacctcgg | cgggggtggt | cctcgtgggt | ctgtcgtggg | 480 |
| tgtgtgtgtc  | tggcgtgttc | tcctacgtga | aggtggcagc | cagctccctg | ctgcatggcg | 540 |
| ggggccggcc  | ggcattgtct | gcagccggcg | tggccatcca | ggtgggctct | ctgctcggcg | 600 |
| ctgttgctat  | gttccccccg | accagcatct | atcacgtgtt | ccacagcaga | aaggactgtg | 660 |
| cagaccctct  | tgactcctga | gcctgggcag | gtggggaccc | cgctcccaaa | cacctgtctt | 720 |
| tcctcctaat  | ctgccaccat | gcctgagtgc | ctgcagccca | ggaggcccg  | acaccggtac | 780 |
| actcgtggac  | acctacacac | tccataggag | atcctggcct | tccaggggtg | gcaagggcaa | 840 |
| ggagcaggct  | tggagccagg | gaccagtggg | ggctgtaggg | taagcccctg | agcctgggac | 900 |
| ctacatgtgg  | tttgcgtaat | aaaacatttg | tatttaaaaa | aaaaaaaaaa | aaraattact | 960 |
| cggtc       |            |            |            |            |            | 965 |

<210> 46  
 <211> 791  
 <212> DNA  
 <213> Homo sapiens

|             |             |            |            |             |            |     |
|-------------|-------------|------------|------------|-------------|------------|-----|
| <400> 46    |             |            |            |             |            |     |
| gaattcgcca  | cgagcgttcc  | tgtgctttcc | cttccctggg | atctggctaa  | aatgcggggt | 60  |
| ctgattctgt  | aggtctgggg  | tttccagagt | ccgcgggttt | gctaagaagc  | cgcagtgtat | 120 |
| ttgacgcggc  | tggctctcag  | tgcacacctg | agtagcacga | cctctccgcc  | ctggacgcac | 180 |
| gctgccatca  | gctgggagct  | ggacaacgtg | ctgatgccta | gtcccagaat  | ctggccccag | 240 |
| gtgactccaa  | caggcaggct  | tgcctctgtc | aggagtgagg | gtaacacctc  | ctcactctgg | 300 |
| aattttctcag | ctgggcagga  | tgtgcatgcc | atagtaacca | gaacctgtga  | gtctgtgtgt | 360 |
| agctctgccc  | tctacaccca  | cggctgtggc | tgtgtgaggt | ctgccacaaa  | cattacctgt | 420 |
| cagtcctcag  | gacaacaaag  | gcaggcggcc | cggcaggaag | aggagaactc  | aatctgcaag | 480 |
| gccccatgata | gtagagaggg  | ccgcctgggc | tacccctcca | gtgccccatca | gcctgggtcc | 540 |
| ggtgggtccta | actagccctg  | tctccttgcc | aatagccctg | tgtccccag   | ccccctcccc | 600 |
| catgcagacg  | gctgctatga  | catccctgtt | ccttaaagtg | cgggggttcc  | cgctgccttc | 660 |
| tcctccctaa  | ctggcacccct | gtgcaaacct | gctgcagaga | acagtgtctt  | gggcagtgcg | 720 |

atagtcctcc agttcaccaa cagtaaaaat ggtctcaatg gggagagaaa aaaaaaaaaa  
 aaaaactcgt a

780  
 791

<210> 47  
 <211> 770  
 <212> DNA  
 <213> Homo sapiens

<400> 47  
 gaattcggca cgagtcatt tctggcagt actttgaaaa gttctgctgc gttacacaaa 60  
 tacgaaaatc acatattttt ggccttggtc ctctgagaac aaaaacatgt aataagagat 120  
 acctgctttc atctttttgca atgaatagaa tactctccta cttagaaaca ggctttttct 180  
 ccttgccact ttattttttt cttacctatg aattgcatgt gcctttgatg aaaacaatga 240  
 actggacatg tacaacggta catgtaatag actgaatgca acttagaagt ggccactctt 300  
 ccagtgtaca taggcttgga aatgaaactaa tccaaacctg agtaatttgt ttatagtacc 360  
 tcctttcact tttgtttatt ggtatctaca gtctctcatt ctttttcttt aataatatct 420  
 ctttatatag aattttatat tcagccatga ctctattatt tcaatagtca cattaccact 480  
 tcgaggattg ataccatgaa aaaagggttat ctagtagttt tgagtgaaga tacgaggcac 540  
 accttcaata ccaataagaa ggtatacaac aaagggtctaa tgaagaaaaa tatctcattt 600  
 tgaaggtagc acatagcttt caactgactg ggctgtttat ggtctttgct gtgtttgtta 660  
 tcacagtatc taatagttaa gtggttaatta ctttcttttag tagaaattcc aagatctaaa 720  
 ttggtacaca tataaatatt tgacaacaaa aaaaaaaaaa aaaaactcga 770

<210> 48  
 <211> 875  
 <212> DNA  
 <213> Homo sapiens

<400> 48  
 gaattcggca cgagctgggt cttctagaag acgaagatct atccaaaatc aagaagcctt 60  
 tgatttagat gttgctgtaa aagaaaataa agatgatctc aatcatgtgg atttgaatgt 120  
 gtgtacaagc ttttcgggcc cgggtaggag tggcatggct cttatggaag ttaacctatt 180  
 aagtggcctt atggtgcctt cagaagcaat ttctctgagc gagacagtga agaaagtgga 240  
 atatgatcat ggaaaactca acctctattt agattctgta aatgaaacct agttttgtgt 300  
 taatattcct gctgtgagaa actttaagt ttcaaatacc caagatgctt cagtgtccat 360  
 agtggattac tatgagccaa ggagacaggc ggtgagaagt tacaactctg aagtgaagct 420  
 gtccctcctg gacctttgca gtgatgtcca gggctgccgt ccttgtgagg atggagcttc 480  
 aggtcccat catcamtctt cagtcatttt tattttctgt ttcaagcttc tgtactttat 540  
 ggaacttttg ctgtgattta tttttaagg actctgtgta acactaacat ttccagtagt 600  
 cacatgtgat tgttttgttt tcgtagaaga atactgcttc tattttgaaa aaagagtttt 660  
 ttttctttct atggggttgc agggatggtg tacaacaggt cctagcatgt atagctgcat 720  
 agatttcttc acctgatctt tgtgtggaag atcagaatga atgcagttgt gtgtctatat 780  
 tttccctctt caaaatcttt tagaattttt ttggagggtg ttgttttctc cagaataaag 840  
 gtattacttt agaaaaaaaa aaaaaaaaaa tcgaa 875

<210> 49  
 <211> 614  
 <212> DNA  
 <213> Homo sapiens

<400> 49  
 ggtcgaccca cgcgtccgac ctccccctcc tgggctaaag tggttctcag ctactgcaa 60  
 cctccccatc ctggctcaag tggctctcgt cctcagcctc ccgagtagct gggacaacag 120  
 gagagcgcca ccaggcctgg ctaattttgc atgttttgta gaggcagggt ttcaccatgt 180  
 tggccaggct ggtctcagac tcttgataaa ataaatgatt aattgtggca ttttggtttt 240

|            |             |            |            |            |            |     |
|------------|-------------|------------|------------|------------|------------|-----|
| caaaatgaga | attgtgttta  | aaatgcaaaa | gagggaaaga | aagttatatg | taatcttcct | 300 |
| atatttagct | tttattttac  | ttcattggca | gtctgggtaa | aaaattcata | gaagacagaa | 360 |
| gacttggttt | ctagtcttgg  | cctgaaactt | ttagctgtca | caactggggg | atgctgttgg | 420 |
| catctagtgg | gtggaggcca  | gggatgctgc | aaaacattcc | acagtacaca | ggacagcgcc | 480 |
| ttacaggttg | aagggtttata | caaataatat | taaagctctt | tttttatatt | aatgtggaaa | 540 |
| aatgttattt | tggttcccat  | gagaaactgc | tactatttga | aatttaaaaa | aaaaaaaaaa | 600 |
| aaaaaagggc | ggcc        |            |            |            |            | 614 |

<210> 50  
 <211> 556  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (513)  
 <223> n equals a,t,g, or c

|            |            |
|------------|------------|
| <400> 50   |            |
| gaattcggca | cgagaagatg |
| ggaagatttt | cgagacatga |
| gccagaatat | accaaacgag |
| tgtaaggcct | gatctgggcc |
| attgctcttt | tgggggactg |
| gtcaggtata | gagatgattg |
| ttgaatatgt | ttgcttttgt |
| agcttacatg | tctccagtag |
| attctcgaag | gggggggccc |
| ctgggcccgc | cggtta     |
|            | 60         |
|            | 120        |
|            | 180        |
|            | 240        |
|            | 300        |
|            | 360        |
|            | 420        |
|            | 480        |
|            | 540        |
|            | 556        |

<210> 51  
 <211> 1003  
 <212> DNA  
 <213> Homo sapiens

|            |             |
|------------|-------------|
| <400> 51   |             |
| gaattcggca | cgaggtcggg  |
| gcgttggcgc | cgctgtttcc  |
| tcgccgttct | tggtcgctt   |
| tccgtcatcg | tagatcgtag  |
| agatcaaaac | accaggagc   |
| actagcagct | tgaccgatta  |
| gtatgaatac | ggttcagccg  |
| caactcggst | ctctcaacaa  |
| ccgtgtcgag | cttctcgtaa  |
| caccaccctt | aggtgtgcctt |
| tgaagattat | tctccgaacc  |
| acgactccga | cgaaggtgcc  |
| tgacattggc | ggagttcgag  |
| tcggagaaga | tcgcgtcacc  |
| tgacatgga  | ggaaactgaa  |
| gagagttccg | cgcgcttggg  |
| gttcagtgc  | tgacaaattc  |
|            | 60          |
|            | 120         |
|            | 180         |
|            | 240         |
|            | 300         |
|            | 360         |
|            | 420         |
|            | 480         |
|            | 540         |
|            | 600         |
|            | 660         |
|            | 720         |
|            | 780         |
|            | 840         |
|            | 900         |
|            | 960         |
|            | 1003        |

<210> 52

<211> 886  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (92)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (886)  
 <223> n equals a,t,g, or c

<400> 52

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| atttcatttt | agggcatact | gggcttactc | tcctcccagc | tgtctgtgga | ttgatttgat | 60  |
| tttaatgttc | gagttttaca | gcaacagctg | anaaaccatg | aactattcta | ggaactgtgt | 120 |
| tggaactctt | taaaataaag | aaaagaggag | gaggagagga | agaaagaaaa | ccaacttaag | 180 |
| aagccttgga | ctttggaggg | acagaaagcc | accagccaat | ggagaacaaa | gagatgtttc | 240 |
| cctttccctt | ctttcacctt | gtcattctgg | gtttccctct | gcttcactct | ttccttcccc | 300 |
| cttaaaagtg | gtattccctg | ttggctctgc | tgtctgtcct | tgtccttggt | gtgatccctg | 360 |
| catggtgata | tgtctccact | tgcattatcc | atgggtctct | accagcgcac | aagtcagtgg | 420 |
| ggaggatcta | accacgcctg | gtggtgagga | agctgaattt | ccaggcctgc | gtcccatgta | 480 |
| gcctctccat | gaactgcaga | aggcatgttc | tgcattgtta | ccagtaagtg | gtccctcttc | 540 |
| accgtgttca | ttgtcaaagt | agagcaaact | ttaggtgttg | gtccatttgt | acactctact | 600 |
| tgtctgtctc | ccctccctcc | aaccagggtt | catgtcagtg | cacaccccat | gtgccctggc | 660 |
| gaagctgggt | ctgtgagtga | tgtttcccat | acaactcagg | gatgccaggt | ggcttaccct | 720 |
| gagatagtca | ttttgggcac | ataacagtgt | aggaatgaaa | catggatttc | attgatattt | 780 |
| aaatctgtca | atttcatttt | ttgttaaatg | tttcccctga | tgacttttta | gcaatttaac | 840 |
| aaataaaatg | gacaattgtc | ttaaaaaaa  | aaaaaaaaa  | ctogan     |            | 886 |

<210> 53  
 <211> 564  
 <212> DNA  
 <213> Homo sapiens

<400> 53

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| tcgagttttt | tttttttttt | tttttttgag | acagagtctt | gctctgtcgt | ccaggctgga | 60  |
| gtgcagtggc | gcgatgtcgg | ctcactgcaa | cctccacctc | ccgggttcaa | gcaattctcc | 120 |
| cacctcagcc | tcccaagttg | ctgggattac | cagagaagag | gctgaagggc | aaggagggaa | 180 |
| aggaattggt | tcccagggtc | atggacctct | tgtgaagccc | ccattgctgt | ggggtctgag | 240 |
| gaaacacaga | ggagggtgtc | gctgctctgc | ctgccccac  | tcccctgcca | acaacgtagt | 300 |
| aacctctgtg | cctaacctct | gagccctggc | ctccaaccct | gggaggagg  | tacttatgtt | 360 |
| atccgcattg | tgcacgtgga | gctcagaggg | gcagccactt | gccaggccag | caatccaggc | 420 |
| tgtctgtctc | cagagcccag | gccccagtc  | aacaacttgc | caggtgcccc | tctccaggcc | 480 |
| tcggcttctc | cacctgtggg | tcaagagcac | caggcttggt | ctagagctat | cttctcagac | 540 |
| ctgatgtggg | ctcgtgccga | attc       |            |            |            | 564 |

<210> 54  
 <211> 933  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (425)

<223> n equals a,t,g, or c

<400> 54

|            |            |             |            |             |            |     |
|------------|------------|-------------|------------|-------------|------------|-----|
| gttggtttt  | aatcctgggt | ttgacactta  | ataaactgca | tgatcttggg  | aaagacatgt | 60  |
| aacctctctt | tcaatttctt | tatgtgtaag  | atgcttataa | tagtattcac  | tttgtagata | 120 |
| ctattattgc | aaggactaaa | attatgaata  | tgtgctggca | aataccaaac  | tttatattaa | 180 |
| tacaagtgtc | atcagaatat | gtacatatat  | taatagtaat | tgttaccaa   | acaccagggg | 240 |
| ttcaatctgg | gtcctgctgc | tactgcaca   | gaaagccaat | gcctgagaca  | acaagtgttg | 300 |
| ccaaggaaga | aggcttaatt | gggtgctgca  | gccgaggaga | tgggagctca  | gtctcaaata | 360 |
| catctctctg | acagaccaa  | actggctata  | tagcarggaa | gaaatgtaata | catgtgtggg | 420 |
| aaaancrgga | actcagaagg | ggcttggaag  | caatcatggt | gaatcagcgt  | ccacatttta | 480 |
| ttgtctggat | gtgatctggg | gagtttcatt  | tctttgatac | tttttttgag  | aggcctgaag | 540 |
| gtcatttctt | gaggaaggat | ctcagataaa  | acaaatataa | gtttcaaata  | ttaagaccag | 600 |
| aaagttcaat | ttctatgttt | atttattctt  | ttttttaaaa | aaaaaagcta  | tatgggactg | 660 |
| ttgggttggt | ttcataatgg | ctgagtactt  | tgaaggttct | gtgggtgcat  | gaatggagaa | 720 |
| gatagagtga | tgggtgggga | ctttaaaata  | ggatgatcca | ggaatgccct  | gaagtagaga | 780 |
| cttgtaagaa | tgagaaatag | caagttatgc  | gggtggcata | gaaaaagctt  | ccagattgaa | 840 |
| aagcaaaggc | aaagaggatg | tctgtgagag  | agaaagcatt | tgacaaaatc  | gaatgcctct | 900 |
| tcatgttttt | aaaaaaaaaa | aaaaaaaaact | cga        |             |            | 933 |

<210> 55

<211> 597

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (12)

<223> n equals a,t,g, or c

<400> 55

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| cttgccatat | ancaagctga | attacctcat | aaggaacaaa | gtggagytca | cgcgktgcgc | 60  |
| cgtctagact | atgatccccg | gctgcagaat | tgggcacgag | cagtcagaaa | actgcgtgcc | 120 |
| ctgccccttg | cttgggcccc | tctaccagta | tgtccagcat | gtgcccgggg | gccctcagct | 180 |
| cccctggggc | ccagcccacc | caagacacag | ctcttggtcg | tgaacatgaa | gatgagccaa | 240 |
| actctagtgg | ctcttctctg | aagaaatgag | aatgcccagc | cacacccatg | cacgctttgt | 300 |
| tctttttttt | ttaatactga | ggaaccggag | tggaggggtc | ctgccgggct | gcagtgaacc | 360 |
| tgaggggaag | caggagagcc | ctgggctgca | gaagagtccc | cccacaggct | ccgaagcaag | 420 |
| cttgctctgg | tgcattcaga | ctgctcacag | caggcttttg | gccctcactc | tccagatccc | 480 |
| agagagccct | ccagggctcc | cagctctcgg | gccagtcccc | amgtcctcga | agggggggcg | 540 |
| gtaaccaatt | cgccctatag | tgagtcgtat | tacaattcac | tggccgtcgt | tttataaa   | 597 |

<210> 56

<211> 773

<212> DNA

<213> Homo sapiens

<400> 56

|             |            |            |            |            |            |     |
|-------------|------------|------------|------------|------------|------------|-----|
| gaattcggca  | cgaggaccag | gcccctgcga | tgctcccaaa | gcctcagctg | tccgtcctca | 60  |
| cactcactgt  | ggcgctcagc | ytcatcccag | gaacctgact | gcctgtctcc | ccaggcgaag | 120 |
| gcttcatgag  | caaagccact | gcagcatcgc | acggtgtatc | tctgagcaca | gctgacttga | 180 |
| cagaaggact  | caactgtcca | cattaccgar | gactgaggta | tacggaatgg | tttctgtttt | 240 |
| gcttcttcaa  | ggaggggaac | tgaaccccaa | ctaaatccaa | ggtgcctctt | ccaacgcctg | 300 |
| taactaaact  | tcaagcatca | cagccccaac | acctgtgtat | ggcaccatct | taactgaggt | 360 |
| ccatcccgcga | agcttcccga | ctgtccacac | tggctctctc | tactcctgtg | caccaaagar | 420 |
| acaagccaga  | ataaatggat | aaaagacagt | gtatgcgcat | gcctgtccca | gctaccagg  | 480 |

|            |            |            |             |             |            |     |
|------------|------------|------------|-------------|-------------|------------|-----|
| aggetgaggc | atgagaaccg | cttgaacccg | ggaggcagag  | gttgcaagtga | gccgagacgg | 540 |
| cgccactgca | ctccagcctg | ggagacagag | cgagactcta  | aaaaataaat  | aaataaatta | 600 |
| aataaataaa | taaataaaa  | taaaaagata | gtgtaggcta  | caaacctcag  | gaagaaaata | 660 |
| ccagcatgac | ttcagaatag | tcagammtaa | tgggtgtataa | agttctcccc  | gctcctctcc | 720 |
| acccacctcc | atcaatccca | ccctatctct | aaccccccaag | ttctctgttc  | ctc        | 773 |

&lt;210&gt; 57

&lt;211&gt; 733

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 57

|             |            |             |             |            |             |     |
|-------------|------------|-------------|-------------|------------|-------------|-----|
| gaattcgcca  | cgagctggct | tgcagcagaa  | ctgggtttttt | ggccctgagt | caatgttcat  | 60  |
| ttccccacac  | caccttaaca | gggttttcctg | gccaaagagc  | agggatggag | atgatgatgg  | 120 |
| tgggtgatggg | gtgtgtgcaa | ggcccggggag | agggttgtag  | tgggaagatg | gggaagaagc  | 180 |
| cacgccccctg | gccactagtt | tcttattcga  | ttactcatct  | gtagagaaat | ttgagacgca  | 240 |
| tcacctgacc  | catccgtcaa | ttcgcacatg  | gcactctaaa  | gcaccagagt | cagtgtctggg | 300 |
| gaaaacacta  | tttaaaaaaa | ttcccagttt  | aacctcatta  | agcctctgtt | ttcccatttg  | 360 |
| taaactacag  | acagactgga | gacttgtaag  | agataaatct  | aattctttca | tagacattaa  | 420 |
| tgatccttga  | aaaaggatca | tttgagggac  | atggagattg  | gtttctactg | tttctgttgt  | 480 |
| tactaacact  | cctcctttcc | caaggccttt  | agaaaggggt  | gagctctcca | tcacagaaag  | 540 |
| tattcagata  | ggcttccagg | aatttttttg  | gaaaatgttc  | ctgctttgag | taagacacag  | 600 |
| gactagatca  | gcgtttggca | aactatggct  | cgtgggctaa  | attccgcccc | tctcctgtgt  | 660 |
| ttgaagataa  | agtggaacac | agccacgttt  | actcgttgac  | agagtctacg | gttgcttttg  | 720 |
| cacacagact  | cga        |             |             |            |             | 733 |

&lt;210&gt; 58

&lt;211&gt; 531

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (506)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (520)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 58

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| tggcgggccc | ctctaggaac | tagtggaatc | ccccgggctg | gcaggaattc | ggcacgagac | 60  |
| ttccacaaac | tcttcattgt | ctactgacaa | ccttacttct | atctttactg | agaccacaaa | 120 |
| aaaaaatcag | atgagttatg | cccatcacgt | caccgtatcc | ccaaactacc | tgctctgtgt | 180 |
| cacaccacct | cactgcctgc | tgcagttact | gtccagggcc | agcgcctctg | cccatgtact | 240 |
| ggagcctgtc | cctccaccct | tttcaagcat | gttactctat | caaataaata | tccctttctc | 300 |
| ttttgcatta | tcagtttttg | tatctctctg | ttggccccac | cagcactatt | acccatgcta | 360 |
| tattagcttt | taaaaaatcc | tctcaatctc | acatttatct | ccaacgttta | catcattctt | 420 |
| ttgtctgact | ttgtagaaaa | atattttgaa | ttttctgtat | ctatttctac | ttccttactt | 480 |
| cccatgtttt | cttgaactca | ctcgaanggg | gggcccggan | ccaattcggc | c          | 531 |

&lt;210&gt; 59

&lt;211&gt; 852

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 59

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| gaattcggca | cgagtgaact | gcatgtccat | ttatcttaag | ccaacacctc | tacttatgta | 60  |
| ctagatccca | ttctttcttc | tcccctttct | ctcttgatt  | agcaacattt | ccttctttta | 120 |
| ctgtaccgta | taaagatgct | atattttctc | ccatctttta | aaaagaaaaa | gtctctttta | 180 |
| accctatata | tccctccagc | tactaactgt | atwkctctct | tgtgctttta | agaaaaaaaa | 240 |
| atgtgtgtgt | gtgtgttttc | ttttgttttg | ttttgtttgt | ttgttttttg | tatggcttta | 300 |
| acggtcttgc | tttgtcacc  | agggtggagt | gcagttgtgt | gattgtggct | cactgcagcc | 360 |
| tcagtctcct | gggttcaccg | ggctcaagt  | atcctctcac | ctcagctcct | gaataccttg | 420 |
| gaatacaggc | atgtgctgcc | atgcctggct | agagaaacgt | tcttgaaacg | ttcatatac  | 480 |
| ttaatatatt | taattccttg | ccttccattc | ttctctgaat | ccactccaat | cagattttta | 540 |
| ttcttgccat | tcttctaaaa | ctactcctat | gaagggttat | tgtggccttc | atttttgtat | 600 |
| gtttactcca | agaaaattgt | tgtgataaat | taccccgaga | tgtagagggt | taaaacaact | 660 |
| atattattac | ctcatgagtt | ttgtgcatta | gaaattcaga | caagacacag | caggagcagc | 720 |
| ttctctgttc | cacagtatct | ggagccttgg | cttgaagatc | aaagcctagg | ggcttaattg | 780 |
| tcagaaatga | tcgtgtgtat | gtctgggagt | tgataccagc | gtttgtctgg | gaacctcagt | 840 |
| tcctttcctg | cg         |            |            |            |            | 852 |

&lt;210&gt; 60

&lt;211&gt; 680

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 60

|            |            |            |            |             |            |     |
|------------|------------|------------|------------|-------------|------------|-----|
| gaattcggca | cgagaaaaaa | acaaaaatat | gttaatatct | tgtggagaat  | attggtatct | 60  |
| ttgttttaaa | cttctgtggg | ttgtgggtcc | atataaatct | agttttctga  | gctttggcag | 120 |
| tgttattcag | atctgtccca | caagtgttcc | acccattggg | cagtctggga  | tctgggtgta | 180 |
| ggtctactca | ttatctcagt | tatcagagtt | tttattatgc | caattgggtat | cagatgcata | 240 |
| cctacacagg | ttgaggatga | gcccagcagt | tcataaacia | cattatgggg  | tcactttcct | 300 |
| atggacagag | agagaagaaa | aaaaacccaa | aacaacagag | tttgtcctgc  | ccacttggag | 360 |
| gcacggctcc | acaggatgga | gagaaagggt | cccttccctc | aaaagttttg  | ttcctggagg | 420 |
| ctttccattc | ccagattctt | ttgttggtgc | tgctgcccc  | accatggatg  | acctggggac | 480 |
| tgacacatga | gagtatggag | ttttcccaag | ctgctgagca | cagtggctca  | cacctgtaat | 540 |
| cctagcactt | tgtggggatg | aggcgggarg | ataacttgag | cccaggagtt  | tgagggtgtg | 600 |
| gmgagctgtg | attgtgccac | tgcattctag | cctgggcaac | agagtggagat | cctgtcaaaa | 660 |
| aaaaaaaaaa | aaaaactcga |            |            |             |            | 680 |

&lt;210&gt; 61

&lt;211&gt; 894

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 61

|             |             |            |            |             |            |     |
|-------------|-------------|------------|------------|-------------|------------|-----|
| tcgagggttag | actgcataga  | aaacaatttc | agatttcctg | gaggctgcat  | aaaatttaac | 60  |
| tattttaaga  | taattaaaga  | agcattaaaa | ataagaagat | tatcatctcc  | agcaaaatat | 120 |
| agaaagtagt  | acagtgaaca  | aaatataatt | agagaatttt | tgctcaaaga  | aaaccatctt | 180 |
| tacattgtaa  | caggaaaaaa  | tgtgtgtggg | ttttaccaaa | tttttattta  | gaaatgataa | 240 |
| ggaaataaga  | agtctaaatg  | gttccaaatt | ctagtatgtc | aaaataggaa  | atcaagtgat | 300 |
| aatatctaaa  | agtgtatgaat | caacaaatag | ctrtagtcaa | tggtattttac | atacatagaa | 360 |
| ctaaatatata | gaaggaacaa  | ccaaagaatt | gaacatcttt | gcctgtgaag  | agtcacttag | 420 |
| ggattcgaag  | ggaaaaagcag | actgatgctt | tttttgtctc | agcactatgc  | gattttttaa | 480 |
| attgttttcc  | cacaatatat  | tgatacaact | aaaaattatt | ttaaaattaa  | aagtttcttc | 540 |
| agtgtctccc  | tctgtcaaat  | ctttaaaaga | tgaaagaatc | atattttatt  | tccaagtcag | 600 |
| tctaaacaaa  | gttttaagtc  | catgcctgag | attttatcca | cagcgtacag  | caacatttct | 660 |
| gtcttgccaa  | attgagtttg  | ttcagcagct | tagaaacact | ggcaagatac  | aaaactagtg | 720 |



|                                                                   |     |
|-------------------------------------------------------------------|-----|
| caagcatatt ttatttataaa aatagtcaga caacatcttt caaacaccat tggtagttt | 780 |
| tcatataaaa tgcaagtttt atcagggtat atttttattg taaacttttc aaaattattt | 840 |
| ttaattatgt gggcattttt tatgtctaac tttatttgca ctctgtccga attc       | 894 |

<210> 62  
 <211> 691  
 <212> DNA  
 <213> Homo sapiens

|                                                                    |     |
|--------------------------------------------------------------------|-----|
| <400> 62                                                           |     |
| gaattcggca cgagatccta ctatatctta tgaataaaga ataaaaatga gtgaagcctg  | 60  |
| atcctccaag agcaccagga gaaaatgaag attctagtgt tccagaaact ccagataatg  | 120 |
| aaagaaaagc aagtatatca tattttcaaaa atcaaagagg aatacagtat attgatttgt | 180 |
| cttctgatag tgaagatgtc gtttccccaa attgctccaa tacagttcaa gagaaaacat  | 240 |
| tcaacaaaga tacagtgtat atagtttctg agccatctga agatgaagag tcccaaggcc  | 300 |
| ttcctaccat ggcacgtaga aatgatgata tttcagaact ggaagacctt tcggaattgg  | 360 |
| aagaccttaa agatgctaaa cttcagactt tgaaggaact ttttccacaa agaagtgaca  | 420 |
| atgatttact taagggtata ttcatttggt attgtagctg taatgatgat aaaatctctc  | 480 |
| ctgcattcag tgctatagtt agtagtggt agtcattttt ctaaagatat cttacgtttg   | 540 |
| aagatatata ctattaaatc taaaggaagt aaatgccaga catttattta ttgaaagtct  | 600 |
| taacttttta atagatgagg ttattttatt gtaaatagtg cagtaattaa agccttaata  | 660 |
| gcgaaaaaaa aaaaaaaaaa aaaaaactcg a                                 | 691 |

<210> 63  
 <211> 891  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (14)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (398)  
 <223> n equals a,t,g, or c

|                                                                    |     |
|--------------------------------------------------------------------|-----|
| <400> 63                                                           |     |
| agtgaataaa cacnttacct gaaggtcagg ttctgaagtt agcatatgag atgaaaattg  | 60  |
| cttatgggta aaatatocct tcagagcctt ggaagtcacc agtaagcagg gccagatgca  | 120 |
| cctgggttgt ggggcatgtg ggatcaaaga cccactaaag gaacacagga ttttcagctc  | 180 |
| cttttgctcc ctggcatttg ctcatcattt gcaactattac taaatgctct tcccttcctt | 240 |
| gtccttctc caagcattgg tacatgtctt tgtgctagtt aagcttgagt acattgtgat   | 300 |
| ttcactagat cacactccca atttcaagkk cagtgtgaag aatatagagg ttctgggttg  | 360 |
| tctagccttg gccacgtatg agtagacacc cccagtttnc aaggtcaact ccactttcta  | 420 |
| ctagaattaa aaagctttac tccaaatgta gttaaaacag cccaatatct tccctttata  | 480 |
| agcagtaatt aaactttagt gtggataaga ttcacttggt ttgcttactt gaaaatgcag  | 540 |
| atctttggct caacctctag aagatgggac agagccagag tggggttgga tggggttgag  | 600 |
| aaatctgcat ttcaacagta gtccacaggt gactctatgc agaccctgga aaacactcta  | 660 |
| tttaagggct caccacagcc agggaccata ttccaactgt cacttttcta ggtctcattc  | 720 |
| tcattatttg ttccaagact ctctcttatt tttgcaaatt taatttataa gtatgagcat  | 780 |
| ttcctgaatg taaccagcca ctctaagcca gagctgacct atgagggaca catacgtggc  | 840 |
| caaggctaga ccaaccagaa cctctatatt cttcacactg aaccggcacg a           | 891 |

<210> 64  
 <211> 958  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (469)  
 <223> n equals a,t,g, or c

<400> 64  
 gaattcggca cgagcgccca cctagtgcac agccttagag gtgttacagg taaaggaatg 60  
 gcggtctcaga gggaaggaga gacttgcccta acttcagggc aagctaacgc ttgatttcaa 120  
 cttgataaat ttctgagtat gcagtggttg cacatagcag agacaggtaa tgagaagttt 180  
 tcttttttcc ttttcttttt ttgtgggggg tggggacaga gtctcactct gtcacccagg 240  
 caggagtgtg gtggtgcaat ctgggtctac tgcaatctcc cccaccccca cctccagggt 300  
 caagcgattc ttgtgcctcc gcctcctgag cagctggcac tacagggtgca cgccamcacg 360  
 ctgggctaag ttttgtattt tagtagggat ggggtttcac catgttctac gtttcaccat 420  
 gttggccagg ctggtccttg actcctggcc tgaagtgatc tgccctgcct cagtgtccca 480  
 aaagtgttgg gattacaggc gtgagccacc gcactcggcc gagaagtttt tctgattaaa 540  
 aaaaatttta aggcacacac ttcagacagt ggctgtgaag gaaccctgat gtgtatctaa 600  
 actgtgcct cgtgcacac accccattac ttactctgtg ctaagtgtg tcatgcatta 660  
 catcattact ccttagaaca ggcctatgag gtggagtctg cattaggccc attttggaca 720  
 aggacaccaa tagtgtggga ggtggtgtac cttgcccag cccccagcag gtaagtgtg 780  
 gtggggatta ggaccaggt cacttgagtc catatcctgg gctcttagtc ccactctgcc 840  
 tggctgcctg ctgctccatg aagccaaccc tggacctaga cctggacctg gatcgctata 900  
 gccagatcc ctgtgtgctt cccaggctgc cttgtggcag gtggatgggt cccctcga 958

<210> 65  
 <211> 802  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (291)  
 <223> n equals a,t,g, or c

<400> 65  
 gaattcggca cgaggaaata tctgaaaact tacatctgtt cttgtgagac acatcattgc 60  
 tttgacgtca gtgacctaac cacacgaact aagaattttt aaaaagtact cttgatggta 120  
 tgttttatga tgttcagggt cccagccatt cctcggaat gtgttttttt gttttttttt 180  
 ttgtttgttt gtttttgttt ttgatgaatg agtctaaagg ctgagtggct atcaaacaat 240  
 tcttttttgt ttacattgta ttatgaaaat aatataaaaa ccctgtgtac ntttcttgtt 300  
 ttccttttcta tagttttggg gaacagggtg gtttttgkta cctggataag tcttttagtg 360  
 taatttctga gattttggtg tgcccatcac cccycctgt actttaaaat gagtaagttg 420  
 tgaaaatgtc aactagtttg ctatttagag ggtcctcata aagtaacaaa atgatacata 480  
 acacatttgc acagcaagtc ctcacttaga gttgtagata tgttcttgaa aactgcgact 540  
 tcaagtgaac caacatataa caaaactaat tttaccatag gctgggtgac acaacaaga 600  
 gcttagttcc taccacacat tactggtcat aaaaacatga ccaaatctct aactaaagac 660  
 caaagactt ctaataataa acatcgagat aaatgtgagc tatacctacc ttttagaaag 720  
 attagtgtaa acaagtaagg taatttactc agttattcta gttcaggact gtgggtagcc 780  
 agagcctgtc ctggcagctc ga 802

<210> 66  
 <211> 1092

<212> DNA  
<213> Homo sapiens

<400> 66  
gtcacacggt cgaatagctc cttcttctca gtaatacaag ctttttttgggt ttgaaatatg 60  
gatcctcttc ccagcataat aatgtgattt tttttattca ttttatgtta ttatatccac 120  
atcttttactt aaaggaaaaat gctgctattt gtgatgaaat tgctcgtctt gaggaaaaat 180  
ttcttaaagc aaaagaagaa agaagggtgag ctggcttcat tttgtgttca gcatcacctt 240  
tttggtgatt gatttgggtga ttgataatgg tgttactgct ctgggagactt tttttcccag 300  
tgggattgat gcgtatcgca cagccccctt gccacttgat caagcacaga gaaacttaca 360  
gcctgaggca ttgggtgcctg cacacccaag ttatgttggg ccatggcgat gagacagctc 420  
ctctactcat ctttctgaaa aagccatctt gccacatcta ataaataatc ttactaagat 480  
tattttaatct tatggcccaa ttataaaagc caagtataa aagcaactgc ctctcgttct 540  
acaaatattt attctgtacg tactattctg tgcaaagcac aatgggtata tatacatgtg 600  
taaataatgt gcctttcaga agcctaacac cgtccaacat caaggtagag gaaccgtcca 660  
gatgcaagag ataagctaca gttcttatcc ttggcctctt gaagtattga ttatcctcca 720  
gggcttttatg attcataggg cctaataaga accttctctt tatgagtata gtaatctttg 780  
tatataattc tggccttttcc cagtacttga gtaaaatact gaattgagac aatacgggaag 840  
ttcattttctc tgctcctttc cttcctgatc tcagggtactt gctaaagaag ctcctccagc 900  
ttcaggctct aactgaaggg gaagtacagg ctgcagctcc tccccacagt tccagtttgc 960  
ccctgactta tgggtgtggc agctctgtgg gaactataca gggagctggg cctattttcag 1020  
ggcccagcac tggggctgag gaaccatttg ggaagaaaac taagaaggag aaaaaaaaaa 1080  
aaaaaactcg aa 1092

<210> 67  
<211> 734  
<212> DNA  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (396)  
<223> n equals a,t,g, or c

<400> 67  
gaattcggca cgagggtgaat ttaattttccc ctaatgactt atgggtattga gcatcttgtc 60  
atgtgctcat tggccattta tagatctact ttagagaaat gtctattcaa gtcctttgcc 120  
cattgttttg ttttgcttca ttttttattt taggttcaag ggggtaatgt gcaggttttt 180  
acacgcatgt attgcaagat cctagagctt gggcttctaa tgatcctgcc acccaagtag 240  
tgaacatagt acccaatagg gagttttcaa cgcttgccct ccttctccct cccactttt 300  
ggaatccctg gtgtccactg ttcccggtgt gtgccatgtg tccccagtg tgagctccca 360  
cttatgagtg agaacatgtg gtttttgggt tctgtntctg catttaattca cttaggataa 420  
tggccccag ctgcattctat gttgccacat tgtacatgat ttcattcctt tttctggctg 480  
tgtagtattc cataatgtat atgtaccaat tttcttttct tgtcttttca gagacagggt 540  
ctcactctgt cacttaggct gaagtgcagt gacatgatca cagctcattg cagcctcaac 600  
ttcccaggct caagcaatcc ccctatctca gcctcctgag tagctgggac tgcagggtga 660  
taccaccaca cctggctaatt ttttgtattt ttggtagaga cgaggtttca tcatgttgcc 720  
caggctgggc tcga 734

<210> 68  
<211> 701  
<212> DNA  
<213> Homo sapiens

<400> 68  
gtttttgtgt atctgtctta ggctttttta tttgagggtta ccattaagct tgcaaataac 60

|            |            |             |            |            |            |     |
|------------|------------|-------------|------------|------------|------------|-----|
| atgttataag | ccattatggt | aaagtgatga  | cagcactgat | tgaaaaagaa | aaaaacaaat | 120 |
| taacaaacaa | gcacagagat | aactaataac  | actacattta | attttattcc | cctttttaac | 180 |
| tttttattta | tttatatatt | atagtgtctat | gtcttgaaaa | gttggtgtag | ttattatttt | 240 |
| gataggttta | tcttttagtc | tttctacaca  | agatatgagt | agtttacaca | ctacaattgc | 300 |
| agtgtcataa | tattctgtgt | ttgtctgtga  | gttttgtacc | ttcagacaat | ttcttattgc | 360 |
| tcccttttct | ttcagaatga | agaactccct  | ttagcatttc | ttatagcata | ggctctgggt | 420 |
| taatgaggtc | cctcagcttt | ttgtttacct  | gggaaaatct | ttatttctct | ttcacgtttg | 480 |
| aagtctattt | ttactggatg | tactattcta  | ggatgaaagt | tttttccttc | aacactttta | 540 |
| atatgttatg | tcactttctc | ctggcatgta  | aggtttccct | gagaagcctg | ctgcaagatg | 600 |
| tgtgggagct | catttgtagt | ttatttgttt  | cttttctctt | actgccttct | tttaagattc | 660 |
| tttctttatc | cttgaccttt | gggagtttga  | ttattaaatg | c          |            | 701 |

&lt;210&gt; 69

&lt;211&gt; 436

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 69

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| tcgagggggc | cgccctcg   | cgccccccag | gctctcacc  | gaagccgccc | ggctccytcc | 60  |
| gaggtccccg | cggttccg   | tccctctctc | cggaggcg   | tccaggtgtg | cggccaacac | 120 |
| agggtgaaag | gscggggccg | cgggaggggc | cggggcgctc | cctggctgcc | tgaatggccg | 180 |
| ggcggggtcg | agggagagtc | gcttctctct | gggtgggggg | cactggccca | acctgctgtg | 240 |
| gttgcaaatg | gcccggccag | ttactgagc  | atctactgtt | tgcagatcct | acattgaggt | 300 |
| agcctccgct | cctttcccg  | cacgactgcc | ttgccctgtg | gggcaggaaa | ttattagcaa | 360 |
| tgacaacaac | accgaatctg | acatcttaag | cattctgcta | agtaaactct | tttttatttt | 420 |
| ttctcgtgcc | gaattc     |            |            |            |            | 436 |

&lt;210&gt; 70

&lt;211&gt; 721

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (7)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (644)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (718)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (719)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 70

|            |            |             |            |            |            |     |
|------------|------------|-------------|------------|------------|------------|-----|
| ttatcanaga | ccctgtgggg | gaatgggggtg | gactctgggg | ggttagcctt | cttccccagg | 60  |
| ctgggagtg  | gtgagacgag | actcggggcc  | tctacatctg | agtgtcccc  | aaaccgagca | 120 |
| gtcatgtcgc | gagcaaacaa | agaaatcatg  | ttacttcttc | cagctgatgt | tccacttggt | 180 |

|            |            |            |            |             |            |     |
|------------|------------|------------|------------|-------------|------------|-----|
| tattctgttg | tttctgtggg | gagagtcaca | ttaaggtgat | ggaggggtggc | cccctcaact | 240 |
| ctattcccca | gagcaggaag | tggtaggcag | gggccaggaa | tggatttttaa | aggcaaagtt | 300 |
| ctcagaccca | gtgggaactc | gaactggtaa | actctcctca | agctcccaag  | gacagaggat | 360 |
| ttgggtcttt | gttggctttt | gtccacagcc | acagaactca | aggtctgaat  | ctggaatctc | 420 |
| ttgacaggac | agtaacataa | acctctagag | atggagtttg | agaaaggccc  | ccccttctgc | 480 |
| cagcttgtga | tttagaaaag | tgcattcatt | caataaacat | ttactgagca  | cgtacggggc | 540 |
| aagtacggtt | cttcacagaa | gatttagggc | ggaaaaggac | agacaggagc  | ctttggccct | 600 |
| gaggtttcca | ttctaggagg | cctttaaatc | tcagactctc | agantaacag  | agactatgat | 660 |
| tactcactat | tcctctggaa | cacgagccaa | aagagagtgc | tgtcagatca  | agacaatnng | 720 |
| g          |            |            |            |             |            | 721 |

<210> 71  
 <211> 793  
 <212> DNA  
 <213> Homo sapiens

|            |            |            |             |             |            |     |
|------------|------------|------------|-------------|-------------|------------|-----|
| <400> 71   |            |            |             |             |            |     |
| gattcggcac | gaggtttcat | gttaattttt | tgttttggtg  | ttgcctgaat  | catacaagta | 60  |
| gtgtaagttt | ggacctcaca | tcaagagaaa | taacagaatt  | ggggacttaa  | atttttaatt | 120 |
| ttaaattttt | ttctacctca | catcagatag | agacaagcct  | cattgccatc  | tcctgtacc  | 180 |
| agaatgtgga | atttttcttg | ttcaaccagt | atttgtgagt  | atggcttttt  | aaaatttctg | 240 |
| gttttatatt | tactttccac | ttctatgtct | tcacctctta  | tagggcccaga | acctcactct | 300 |
| ccaaccaagt | gcaaaattaa | atagaattct | tgtgatatca  | ggggaaacaa  | aatatctccc | 360 |
| tgaccttctc | tagatgtctg | tactatcagt | tcacgagttt  | ctgtctctaa  | agcatagtcc | 420 |
| ctgtttctcc | tgatgttttc | tctctttctg | gcaaaaaagr  | atgttattgc  | atattacaaa | 480 |
| taatttttgt | tagtttctac | tcaaaatttt | aacatatttg  | tagtgagaaa  | gatgttacaa | 540 |
| tattttattc | accatcctgc | cagaacaaga | tgtcaagggtg | gtgttttctg  | aaacacaaat | 600 |
| gggtgtgtca | cactcctact | taaaatcttc | aatgacttta  | tatttctatt  | atcataaaat | 660 |
| tccatctcct | tcatattaca | taaaaggaaa | tcctaccttt  | caagtctaac  | cctttgctat | 720 |
| ggtctccttc | acactcagtt | ttcagcwata | tggagctcct  | ttcaggctcct | aagatgtttt | 780 |
| ggtgtttcct | cga        |            |             |             |            | 793 |

<210> 72  
 <211> 761  
 <212> DNA  
 <213> Homo sapiens

|            |             |             |            |            |            |     |
|------------|-------------|-------------|------------|------------|------------|-----|
| <400> 72   |             |             |            |            |            |     |
| gaattcggca | cgaggacagc  | atgagatggt  | ctttgttggt | cttctcccgg | aaatgattcc | 60  |
| cctcactgca | gaggagggtg  | gaggctggaa  | gaaaagcaga | agtgacccta | agacacttcc | 120 |
| tgtccaggca | tttgttttca  | agtgccaaagc | ctggggaccc | aggaggagaa | gggaaggact | 180 |
| tccttgggat | tcctccaaac  | tgtctccctt  | gagcagcact | agactcacta | cctgctcccc | 240 |
| acctcccacc | tcaggaaggg  | gactgcaggg  | tacacaggag | gctgcgccct | ggacaccagg | 300 |
| ccccagcccc | accaaaccct  | cagtccccaa  | agccccagac | cctgaacttg | ccaggaccat | 360 |
| gcaggctggg | ctactgtggg  | tcttggcaga  | accagcaacc | aatggagggc | gagaaggaag | 420 |
| gagatctcta | acattttcac  | agaacaaacc  | acgcaggaac | ccaagaaagg | ctgaagttct | 480 |
| attttttgcc | aatccggtgt  | aatgagagta  | taaagccaaa | attaacttga | attctagaaa | 540 |
| ataaagacaa | gccatatttc  | ctgaacctga  | gtcaatggac | tgagattcca | tccaaataaa | 600 |
| ggaaaggcta | ggaggggagac | gggtggcttc  | tggtccagt  | gagaccgag  | gctatctgct | 660 |
| gcagacccca | gattgcaggc  | cacggtccct  | gtccagtggc | agggcaccag | cctaccttgc | 720 |
| cactgtgggc | agccatcagg  | gagagggcag  | ccactmtcga | c          |            | 761 |

<210> 73  
 <211> 673  
 <212> DNA

<213> Homo sapiens

<400> 73

|            |            |            |            |            |             |     |
|------------|------------|------------|------------|------------|-------------|-----|
| gaattcggca | cgaggtccta | gtgtgtgaat | cagggcctgt | gtggacatgg | tcgtgccagc  | 60  |
| ggactcggga | ggcctgccgc | gccgcaccga | gaagctgctg | tgtgtgatgc | ttttgcttct  | 120 |
| ggagaggatg | gcactgtgcc | ctgtgcttga | tgtacacaca | catttggggt | gcacatctctg | 180 |
| tgtggcctgc | cagcctgtcc | gcactgttct | gtctcttctg | acagcctcca | tccaggaagg  | 240 |
| ctctagacta | tctgggcatt | ttcaaact   | gccgcacaa  | actgatacaa | ctttccacaa  | 300 |
| aggaagcaaa | ttatagagct | gagaccaaac | cagttttatc | ctcctccctt | accccccccc  | 360 |
| cggcatatct | tgaatcaaac | aaactcttct | tgtaatgtcc | gctttccgga | cagttcccat  | 420 |
| cccacagtca | ggcggccatg | aatttggttg | gaggcaacgc | tttccaagga | ggctgagtcc  | 480 |
| atcgcccgat | ggtgtggctg | gtccggccgg | ggcacagtgc | agagctccta | cccgggactc  | 540 |
| tctctgacac | ctagtgtggg | agccaggcac | actgcacaga | cagacacatg | gctgaggtat  | 600 |
| gaccctccta | gccaaccaa  | aggcaagcag | agggcgacag | gatgcaagca | cgagaagagc  | 660 |
| aacttgctct | cga        |            |            |            |             | 673 |

<210> 74

<211> 583

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (15)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (64)

<223> n equals a,t,g, or c

<400> 74

|             |            |            |            |             |             |     |
|-------------|------------|------------|------------|-------------|-------------|-----|
| atamcatttc  | mcacnggaam | crgctatgac | cctgattacg | ccagctcgaa  | ttaccctcac  | 60  |
| taangggaac  | aaaagctgga | gctccaccgc | ggtggcggcc | gctctagaac  | tagtggatcc  | 120 |
| cccgggctgc  | aggaattcgg | cacgagacag | gtgcatgcac | acgccactgt  | gtgtgtgtat  | 180 |
| gtgtgtgtgt  | gtgtgtgtgt | gtaggggaat | cttagtctaa | agcatccac   | tgcaaaactaa | 240 |
| aagctcttta  | aagtatatta | atgtcacaaa | aagttaaggc | atttttccat  | tcttgtttagc | 300 |
| atgtttcttt  | taccattttt | ctcatttcaa | attactttga | ctttaaacgt  | tccctgaaac  | 360 |
| ttaaataatac | tgaggttctg | ggaagagcta | acatgccaac | atttctatatt | tgatacacat  | 420 |
| atctttctgg  | caagctgctg | agtacctcca | gttaagaagc | acaggcctaa  | actctcagtg  | 480 |
| tacagcattg  | ataaaatata | tctcgagggg | gggcccgta  | cccaattcgc  | cctatagtga  | 540 |
| gtcgtattac  | aattcactgg | ccgtcgtttt | acaacgtcgt | gac         |             | 583 |

<210> 75

<211> 801

<212> DNA

<213> Homo sapiens

<400> 75

|             |            |            |            |            |            |     |
|-------------|------------|------------|------------|------------|------------|-----|
| gaattcggca  | cgaggatggg | atttcacat  | gttggccagg | ctgggtctga | actcctgacc | 60  |
| ttaggtgatc  | ggcctgcctc | ggcctcacaa | aatgctgaga | ttacaggcgt | gagcaccgca | 120 |
| cctggctctga | tttttttttt | aaatgcaaat | cagactatgt | cactcttttg | cttgaagctc | 180 |
| ctcagtggct  | gcctatggct | gtcagggtca | gagcctcacc | acggcctggg | tttctctctg | 240 |
| tgccccctgg  | ctttcgcctc | ctgctctatt | cttatcctga | actacgcaa  | gccctttctc | 300 |
| aacccccccc  | cttgctccct | ctgtctggaa | ctacctccc  | aggccttttt | gtgccgttca | 360 |
| ttctcaagtc  | acctcctcag | cgagccctcc | ttagtcactc | cctttcatca | ccctgtttgc | 420 |

|             |            |            |            |            |            |     |
|-------------|------------|------------|------------|------------|------------|-----|
| ttccttccca  | ttatctggtt | tccttgagg  | cttatgtctg | tctccccca  | gtggaatgtg | 480 |
| ggcctcatgg  | cacaggccca | tcggggtcac | tgctgtgttc | agggctcagt | aaggatgcct | 540 |
| cgggtgcgctt | ggatgtggcg | ctggccggct | ggctgggggt | gccacctggc | gtgatttgtt | 600 |
| gtcacttgct  | cacttgctct | agatgctggt | tataaaagta | ctaatagaac | caggcacggt | 660 |
| ggtttatgcc  | tgtaatccca | gcattttgga | agcccaaggt | aggcgaatcc | cttgagccca | 720 |
| gggtgtttgag | accagcttgg | gcagcagggc | aaaaccctgt | ctctactaaa | aaaaaaaaaa | 780 |
| aaaaaaaaaa  | aaaaaactcg | a          |            |            |            | 801 |

<210> 76  
 <211> 982  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (554)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (615)  
 <223> n equals a,t,g, or c

|             |            |            |            |            |            |     |
|-------------|------------|------------|------------|------------|------------|-----|
| <400> 76    |            |            |            |            |            |     |
| gaattcggca  | cgagtggcca | gctgggtaat | gggaacagaa | cagagcctgg | gatatagggg | 60  |
| acagggctta  | ttattggtgt | tatcacttca | tgtctcccag | agaggcctct | gtgggtcact | 120 |
| gccccctca   | atgagttctg | aagagagaaa | acagaggccg | tggtccagtc | agtatgggga | 180 |
| gcactgtgtt  | cccgaacccc | cactgcgtgt | taaggtcagg | cgccacatct | tgtagtcagt | 240 |
| tgctttgccg  | agtggctcca | gctttctcta | gtcctctctt | gggcctcagt | ttccctgcct | 300 |
| gctggccaac  | agagggccct | gccaactctg | gctgcctatg | accaggggtg | ctccagaggg | 360 |
| tgctgctggg  | aggggtgcca | accctamctc | tctgcaagtg | aaactgggca | tgccamtac  | 420 |
| ctctctgggg  | cctcagtttc | ctcttctgag | cattgaggaa | atttgggggt | ttccatgttc | 480 |
| cttccagtc   | gaaaccagat | gctgccatgt | cccccaaccc | aaggcctcag | gaacagtgtc | 540 |
| ggatgggtcat | tttngagggt | ttctgtctct | gtctctccga | ktgagggttg | cttggaaagc | 600 |
| taagaataga  | atccnagcma | ggctgtaktg | gcgccagct  | ggaacctgat | ataktcacat | 660 |
| atgagaactg  | gtaggcctgc | atgccgaccc | tctatggacc | agaatgggac | agaggccaga | 720 |
| atatggccat  | gctcttcac  | ctcactcctg | ccccactgcc | ctcagcccag | tcctcctgtt | 780 |
| ccatctgact  | gaaaatcagg | gcattgtagg | tgatgggttg | ggctgcagcc | aggtctgtgc | 840 |
| ctgctgtggc  | ctctgagctc | tgaggtcaaa | tggggactgt | ggaagaggct | gcctagagtg | 900 |
| gcagaaaccc  | taccctggaa | tggggagctg | gctcagctgc | gggctcactg | tgtgagcctc | 960 |
| agcaacttgc  | catccctctc | ga         |            |            |            | 982 |

<210> 77  
 <211> 1001  
 <212> DNA  
 <213> Homo sapiens

|             |            |             |             |            |            |     |
|-------------|------------|-------------|-------------|------------|------------|-----|
| <400> 77    |            |             |             |            |            |     |
| gaattcggca  | cgagtactct | taagagcact  | caatcacctt  | ttgaatgctt | tgctgcttag | 60  |
| aaattttcttc | tgcaagacat | cctaaaacat  | ctctctcaag  | ttcaaagttc | cacagatctc | 120 |
| tggggcagag  | acaaaaatgc | tgctagtctc  | tttggttaagc | atagcaagaa | ttacctttat | 180 |
| tttagttccc  | aacaagttcc | tcactctccat | ctgagatcac  | ctcagcctgg | actttattgt | 240 |
| ccatacact   | atcagcattt | tggtcaaaat  | cattcaacaa  | gtcactaaga | agttccaaac | 300 |
| tttcccacgt  | ctttctattt | ttttctgagc  | cctccaaact  | gttccaacct | ctgcctatta | 360 |
| cccagttcca  | aagttgtctc | cacatttttg  | agtatyttat  | agcgsacccc | accctctgca | 420 |
| gtmccawttt  | mccatattag | tcmcttttcm  | cattactatg  | aagaaatmcc | cagcctgggt | 480 |

|             |            |            |            |            |            |      |
|-------------|------------|------------|------------|------------|------------|------|
| aattttattaa | ggaaagatgt | gcmattcact | cacwtctctg | cactaccagg | gagatctcag | 540  |
| gaaacttaca  | tcmtggcaga | aggcaagaag | aagcagacac | cttcttcaca | gggtggcagg | 600  |
| acagagctag  | tgcaagtagg | gaaaatgccc | agatgcttat | aaaatcatca | twctcatga  | 660  |
| gaagtcactc  | actatcatga | gaacagcatg | agggaaacta | cccccatgat | ccaattgcct | 720  |
| ccatctgggt  | cacccttcat | atgtggagat | tatgaatatt | accatttgag | agagattttg | 780  |
| aatgggagca  | cagatccaaa | ccatagcact | gccttaaggt | atctaataat | caaactccca | 840  |
| aaggtcaagg  | gaaaagaaa  | gattctaaaa | atagcaagag | aaaagaaaca | aattacatgc | 900  |
| aatggagcac  | caatatgtct | ggctgcagat | gtttcagtgg | aaactttatt | ggtttaggag | 960  |
| agagtggcat  | gacgtgctaa | aaaaaaaaa  | aaaaaactcg | a          |            | 1001 |

&lt;210&gt; 78

&lt;211&gt; 748

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 78

|             |            |            |            |             |            |     |
|-------------|------------|------------|------------|-------------|------------|-----|
| tcgagggctg  | ggcctaactg | gaactctgat | tccatgtaga | aaagacaggg  | tcccacagcc | 60  |
| tgcttccttt  | ctcctggctt | ggtgggcatg | cagaatttct | tgaccctgt   | gttccaacaa | 120 |
| gagagctgaa  | aggaactctc | ctaaagaact | cacatatatt | ttttaaatc   | taattctttt | 180 |
| tccaaaataga | agtttgaaaa | ggcaccctct | agaggaacat | gcacttctgg  | actggcccca | 240 |
| ggttccagct  | tgggttggtg | ggcgtgccag | cagctcagtt | tgaaacctct  | cacattgaat | 300 |
| caagggccag  | aagcagggcc | tgtgggaagt | ttctaggctt | ctgctcatcc  | agaactgtcc | 360 |
| cctcagcatg  | gtgtgaggct | cttatggagc | ctgcagtcac | aggatatgag  | acaaaaagcc | 420 |
| ttcccatcca  | tggatgtcct | ttcatacact | ggcacagAAC | accgggaaca  | aatgaagggt | 480 |
| actgagaaaa  | aaaagaggca | gacccatttc | ttctgcgggt | tgttttgtca  | tccagatacg | 540 |
| cttactttgt  | gcttatagct | gtatgatctt | ttttcctcat | ctctaataga  | caggatttct | 600 |
| gcctcattac  | ccatacagct | aaagcttaat | attaactaaa | tcagtgggtga | attcctttcc | 660 |
| tttcccaccc  | cgacactatc | agcgacattt | ttcataatgg | ccagcagagg  | tcagtgtgag | 720 |
| aacatagaga  | ctacactcgt | gccgaatc   |            |             |            | 748 |

&lt;210&gt; 79

&lt;211&gt; 586

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 79

|             |            |            |            |             |            |     |
|-------------|------------|------------|------------|-------------|------------|-----|
| gaattcggca  | cgagggacta | ccaacaagtg | ttgctggacg | tccggcgggtc | attgcccggg | 60  |
| ttccctcctg  | gtgagaagct | ctcccgggtc | tgccacattt | ggaaagactg  | tatctgttcc | 120 |
| aggctcatacc | atgtgacctt | atatgctgga | ccctgccgcc | tcagggacct  | tcagagctct | 180 |
| cctttttgtg  | agtcacacct | ttcttgactg | gtcactttca | gacccccact  | gtgaaagcct | 240 |
| gaacccaaaa  | taattttctc | tggcctagag | gtggtgaatg | agagaagagg  | tttttgtttt | 300 |
| tccttgaagc  | cacaaaaagg | agttaataag | gattgttaga | gccatcagtc  | tggcattaaa | 360 |
| gagcagattg  | gtgtggaatt | gggcaccaac | agaatgagt  | aatatcttaa  | ttaggtttta | 420 |
| aaacgatggg  | accttgcgca | tacatatgta | agattcctta | gaggggaagag | aggccattcc | 480 |
| ctgtttgtgt  | aagagtatat | tccttaatta | acaaatgaag | cagcaataga  | taaaaaaata | 540 |
| aataaataaa  | aacaaaaaca | acaaaaaaa  | aaaaaaaaa  | actcga      |            | 586 |

&lt;210&gt; 80

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 80

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| tgcacscacg | cgtccgaaaa | tactttttta | gaaagaaaat | gacagaagca | acccaagtgt | 60  |
| ctactgatgg | ataattaaat | tatagtatat | aaatacaatg | gggccgggtg | cagtggctca | 120 |



|            |            |            |            |             |            |     |
|------------|------------|------------|------------|-------------|------------|-----|
| gccttccaaa | gtgctgggat | tacaggcatg | agccacaaca | tccagccctt  | tttctctttt | 180 |
| cttacccttc | tttcttattt | tcttttccat | tttctttccc | tcccttcttc  | tttctttcct | 240 |
| aactattaag | gagtagattg | aattcaaggt | ctttatgtgt | gtcagttttt  | gttttccaac | 300 |
| aaatatttct | taaaaacca  | ccattgaaac | gtaatggtaa | ccactggccc  | ctgtctccac | 360 |
| ctccacacct | aagaagcccc | aaatccagat | gtgtccatta | aaatcagtc   | agatcttctt | 420 |
| taccaagcca | ctagatgtca | tattaatttc | acagcagaat | aggggaagccc | atgccggagc | 480 |
| tgaaaacctg | caacaacaaa | aaagcatcta | aatactgcaa | aaaaaaaaaa  | aaaaaaaagg | 540 |
| gcggcc     |            |            |            |             |            | 546 |

<210> 81  
 <211> 708  
 <212> DNA  
 <213> Homo sapiens

|             |             |            |            |            |            |     |
|-------------|-------------|------------|------------|------------|------------|-----|
| <400> 81    |             |            |            |            |            |     |
| tcgagttttt  | tttttttttt  | ttttaaatta | gtcaaacatt | ttattataga | gtatatattt | 60  |
| atatcaaaag  | cacaaaaaacg | tttattctga | aaaccaggaa | gatttgtatg | ttacagaaga | 120 |
| agattcaata  | attccagtc   | atttctaggg | tactaagtgt | ctgatcacct | cagygaaaac | 180 |
| aagatacaaa  | tgaggccaag  | gtcacaggtc | tggccaccct | gagtccttc  | gcactatttg | 240 |
| gtttctcaag  | ttgagacacg  | tattcccagt | cccagttagc | caccttccaa | gtgtttgcta | 300 |
| ctagccttaa  | tgggtactta  | gccaaagact | acacccaaat | ataaccaaa  | cttatgttaa | 360 |
| gtcataagat  | taatccttca  | ataataagga | tagcataatt | ggctttgtta | cctaattcta | 420 |
| cataaaca    | atcatcaaat  | atcctggcat | aactgaaatg | acttacagag | gaagtagtaa | 480 |
| agcttggaag  | tattctatgg  | taactgagct | gaaaaagggg | aaatgccaaa | tggtgtaaat | 540 |
| gccatcatta  | ccaataagag  | tcaccaaatt | ctcagaaata | ggtaattggc | agctcaaggc | 600 |
| agtttagcact | acaagatttc  | tcttgccctt | aaaaaaaaat | catttttaag | actccttttt | 660 |
| taaaaggcta  | catcaaaaaa  | taaacaaaaa | taacctcgtg | ccgaattc   |            | 708 |

<210> 82  
 <211> 824  
 <212> DNA  
 <213> Homo sapiens

|            |             |            |             |            |             |     |
|------------|-------------|------------|-------------|------------|-------------|-----|
| <400> 82   |             |            |             |            |             |     |
| gaattcggca | cgaggagaaa  | tttttcattt | ttgattttta  | aaccattaga | gcagtagctg  | 60  |
| agcctttcaa | gtttctcagt  | caagaattag | gctatgagta  | gggacagttt | tcttctctgt  | 120 |
| tttattttta | tttttgttcc  | cttagtgaca | ttgcaggaat  | gctgctgaaa | tctacaggaa  | 180 |
| gttttttaga | atttggctta  | caggagagct | gtgctgaatt  | ttggactagt | gcggatgaca  | 240 |
| gcagtgcttc | cgacgaaatc  | aggttggagt | tgtgcttcct  | ttccccttc  | acttcttatc  | 300 |
| tcgtagtttc | cttctcatg   | gtgagatcct | agaaggagcc  | ttgttcaaac | caaatttgtgt | 360 |
| tggcctggaa | gaatttgggc  | agtagatgta | aagggtttta  | tttataactg | ccttgtcttt  | 420 |
| tcatgtgatt | tcttagttat  | ggttttatgt | gaaattttct  | ttgaagggga | acttagaatt  | 480 |
| tatttagtgt | gataaaaaata | gtgccaactg | gctgggcgcg  | gtygctcacg | cctgtaatcc  | 540 |
| cagtactttg | ggaggccgag  | gtgggtgaat | caccagggtca | ggagttcaag | accagcctgg  | 600 |
| ccaagatggt | gaaacctcgt  | ctctactaaa | aatacaaaaa  | aaacagctgg | gcgtgggtggc | 660 |
| acgcaccctg | gatcccagct  | attcaggagg | ctgaggcaga  | aaatttcttg | aaccaggag   | 720 |
| gcagaggttg | cagtgaagcca | agatcatgcc | actgcactcc  | agcctgggtg | acagagcaag  | 780 |
| actccgtctc | aaaaaaaaaa  | aaaaaaaaaa | aaaaaaaaac  | tcga       |             | 824 |

<210> 83  
 <211> 789  
 <212> DNA  
 <213> Homo sapiens

<220>

<221> SITE  
 <222> (789)  
 <223> n equals a,t,g, or c

<400> 83  
 gaattcggca cgagcttgag tattagctgc gtgggtaagc tctatcatct gggactgcag 60  
 ggcctaagtt taaaaccttg agtgaaatta ttctgcttct ttaggcctca ttattctgaa 120  
 agactggata ggagtggtat ttatcccaga cggtagctti gaatttggat ggagataatg 180  
 tatgtaaagg cctctgcagt cacggtctcc agagatgagg ctcttactcc ctgtcttcca 240  
 gatcctcact ggaatgcacc ctttgcaaga cacctcctcc agcccagctg ttcttttctt 300  
 gaattcccat agcacttcac tggatatttct ttctagcact taacagttat gtgcctgaca 360  
 tgatgggttaa aattttacct tccctttgag actctgagca cctctaggct aggggaagggc 420  
 ttgggtgcaact ccgtgtcctc tatacttggtg ggtaccaaac cgagaagagg atcaatatca 480  
 cttgaggagc tttgaaaaat agattccttt gggaggccga ggtgggcca tcacaggggc 540  
 aggagattga gaccatcctg gctaattgcag tgaagccccg tctctactaa aaatacaaag 600  
 gattggctgg ccttgggtggc gggcacctgt ggtcccagct acttgggagg ctgaggcagg 660  
 agagtggcgt gaacctggga ggcggagctt gcagtgcagc gggattgcgc cgctgtactc 720  
 cagcctgggc aacagagcga gactccatct caaaaaaaaa aaaaaaaaaat cgaggggggt 780  
 cccgtaccn 789

<210> 84  
 <211> 811  
 <212> DNA  
 <213> Homo sapiens

<400> 84  
 gaattcggca cgagggggcga tcatgctgag cgagactcca catgccagga gggggagggc 60  
 attttctcacc gacagtcttc ccattggtcat tccatccctc ctctgctc ctccaggcag 120  
 agcctctctg gctgagccca ctcttagatc tgtgaaaggg cagcctctca cctgtgcaca 180  
 gcacatggaa gaccttgctg tgagcagaga gaactgctcc cactataggg tccagctttg 240  
 tctccagacc cctgcccctt cagctccacg ccttaccctg atggctcttt cctgtctccag 300  
 cctcccctga gctgcccctt tcatcctatc tgccccctca actaatgcag cacagtctca 360  
 gtaagggtgat ctgtaactct ggctcagggg cttctcaggg ggactgaaga gtaacatcac 420  
 atcccatgaa cccactcagg gaggggcggg gctgggtcatc actgagtcct cacttgaaag 480  
 aaagctgaac ttaggccggg tgtgctgggc acggtggctc acgcctataa tcccaacact 540  
 ttgggaggcc gaggcagggt gggtcacctga gggtcaggaat tgcagaccag cctggccaac 600  
 atgggtgaac taaaaataca aaaaaattag ccgagcatgg tggcaggcac ctgtgatccc 660  
 agctactcag gagaatcgct tgaacccgga aggtggaggt tgcagtaagc cgagatcaca 720  
 ccactgcact ccagcctggg cgacagagcg agactccatc tcaaaaaaaaa aaaaaaaaaa 780  
 ctgcagggggg ggcccgtacc caatgccta t 811

<210> 85  
 <211> 1037  
 <212> DNA  
 <213> Homo sapiens

<400> 85  
 cggcacgagg tgatacttct gaagactgca gggagaatcc gttttccagc ttttttcac 60  
 caccagaggc cacctgtatt ccctatccca caaccctagc cccttcctct atctttgaag 120  
 tggactatatt catcccctgt ttctatcatg acagtgcctt ctctcatatt gacctcttg 180  
 ccttataaga ttctttgtga ttacactggg tccacctgca taatcaaggc taatctctcc 240  
 atctggagat cttaataataa tcacatctac aaagtccctt tggccattga agtaacatat 300  
 ttatatgtat tcattattag gatgtgggac acttttgtca gggacaggga tttttcagcc 360  
 tacctttttc ttcacctttt gccaccactc tcagcctgtg gtctcaattg ccagccttta 420  
 cacttgctac ccattgtct gggtagttca taccagtcct caagactagc ctcaggcatg 480  
 cctcttcttg gaatacatcc tcttacaggc caggatatga ctcatgggtg catcctaata 540

|            |            |            |            |            |            |      |
|------------|------------|------------|------------|------------|------------|------|
| gcacttcact | tatttctact | gtcaccacac | tgatctgtaa | ttacttgatt | tgtctgactc | 600  |
| ttctgggggc | ttgtaagcat | tctggcacag | agaactatga | cttactgggg | cttacatctc | 660  |
| ttgctaaca  | cagtaccta  | aatttagtag | gcattccctc | ataaacatga | atgaatgaat | 720  |
| caaagaatga | ataaacattt | aggaaatgat | gttgtgttg  | tcaacttctt | tcctcatcac | 780  |
| tgttaaagat | aaaagaatgc | caagccaggt | tggtcagaca | gaagcaagca | ccacatccct | 840  |
| gagagagcag | cacatctggg | cagccatgtg | tgagaagtcg | gttgcatcc  | ccatacacag | 900  |
| ttgtctttgc | agctgtactc | ttaaccactg | taaccacaga | agtggggaaa | caatagggtg | 960  |
| gggtgaagtg | aaaagaaaat | tttccaaaac | ttcatttatc | taataaatac | agatatttaa | 1020 |
| aaaaaaaaaa | aaaaaac    |            |            |            |            | 1037 |

<210> 86  
 <211> 727  
 <212> DNA  
 <213> Homo sapiens

|             |             |            |            |            |            |     |
|-------------|-------------|------------|------------|------------|------------|-----|
| <400> 86    |             |            |            |            |            |     |
| gaattcggca  | cgagaggggtt | ttagtttatg | tctctaactt | tagcaaagct | gcattcctat | 60  |
| tggaatgcat  | actggaaaca  | gctctcattc | ctacctttaa | agggctcttg | gaaagcagtg | 120 |
| tgacaaccaa  | ggtcactaaa  | tggtgagatc | atcaagccat | tttaagttct | ttctcatggt | 180 |
| attcaccagc  | accctgcagg  | acgttgggca | cacatcacat | ccctcagctc | agccatccag | 240 |
| ccgtctcagt  | gattcaccac  | tcatttgctt | aattaataga | caggtttgat | cactttgtac | 300 |
| atggaaggca  | ctgtgccagt  | gaacaagcag | ttggaccag  | ccctccagta | gggaatggac | 360 |
| agctgaaaat  | ccatgagcaa  | gaaagaagga | aaaagaaaga | gttctgagca | gccaaaccat | 420 |
| ttctcgatga  | tttcagagcc  | ttcattctga | gcattcagta | tatgctctcc | agtgtaatga | 480 |
| ctttatagcc  | aagcacagta  | attgatatta | ctgtgaaggc | ccttaactta | tcaagaaatg | 540 |
| gttgaggccg  | ggcacattgg  | ctcatgccta | taatcccagc | acgtgggagg | ccgaggcagg | 600 |
| cagatcactt  | aagcccagga  | gttcaagccc | agcctgggca | acatgatgaa | agcccctctc | 660 |
| tacaaaaaaaa | aaaaaaaaaa  | actcgagggg | gggcccggtg | cccaattcgc | cctatagtga | 720 |
| gtcgtat     |             |            |            |            |            | 727 |

<210> 87  
 <211> 690  
 <212> DNA  
 <213> Homo sapiens

|            |            |             |             |            |            |     |
|------------|------------|-------------|-------------|------------|------------|-----|
| <400> 87   |            |             |             |            |            |     |
| gaattcggca | cgagagcagg | gctaggtgga  | catgaggagc  | ccagttcagg | gctgtcacag | 60  |
| tagctccagc | agcagatgat | tgtggctggg  | cctcccaagt  | gtcacgttgg | agaaccggag | 120 |
| aaggggactt | ctttgggatg | tactctggac  | ttgttgatag  | attaagtgtg | ggtgggtgta | 180 |
| ggaagagaac | tcaaagatga | caccaggtgt  | tgagagctgag | ccacggggag | aagggtgcaa | 240 |
| agggaaagca | gtgcgggggc | tgggagggga  | gagggtcagt  | cctgttttgc | ttgtgctgca | 300 |
| tctgaggagc | ccctcacctg | tggaaggaga  | gcagtcccag  | aggcagtggg | gtgtgcagtt | 360 |
| ctggaactta | gaagaatgat | cagggggctg  | ggtgcagtgg  | ctcacgcctg | taatcccagc | 420 |
| actttgggag | gccgaggcgg | gcggatcaag  | aggtcaggag  | attgagacca | tcctggctaa | 480 |
| catggtgaaa | ccccgtctct | actaaaaata  | taaaaaatta  | gcagcgcagc | gtggcaggca | 540 |
| cctgtagtcc | cagctattca | ggaggctgag  | gcaggagagt  | ggcgtgaacc | cgggagacgg | 600 |
| agcttgcagt | gagctgagat | tgcgccactg  | cactccagcc  | tgggcgacag | agcgaactcc | 660 |
| gtctcaaaaa | aaaaaaaaaa | aaaaaactcga |             |            |            | 690 |

<210> 88  
 <211> 896  
 <212> DNA  
 <213> Homo sapiens

<220>

<221> SITE  
 <222> (401)  
 <223> n equals a,t,g, or c

<400> 88  
 gaattcggca cgagaaattg agaaacatta atacaaagta agagacaaga gcctagtaac 60  
 aaatggtggc tctttgagaa aaggaaatta ttacccaaat tttagactaa ctgaaggcat 120  
 gccaatlaag caccagattt tgctcttaaa cttttttgga agctgagtag aaattatcct 180  
 tttgttccat atgatgactt attaaataaa atactttgca caatatgtgc ttttagatgg 240  
 agtaaacac atacctttta aataattatt ttgattgcct atattcatat catgatgcta 300  
 ccttttkgca tttgtgcagt gtacatkga tattaactga gtgttttagaa atgctggatt 360  
 ttaggtttca gctttgctgt ggggtgaagg aagtgggggg ncttctgttt gttggtgcca 420  
 ggcattatgc tacatattat acatctgtta tctcatttga tttcccaaaa tccttaagaa 480  
 gttgaattat tatactcatt ttggaaataa gaaatgaagc ttagagaggg gaagaacagg 540  
 tttaaatcct ggctgtaagc cctttgggct ttggttttcc taactaggga agaggaataa 600  
 tagtgatgaa aataacaatc atctgatgat ctttgtaatt ttactgacgg agtagaagcc 660  
 atcagaagag aatgccacaca tcttcccttt gatagagcat ctgacttgca tctccttagt 720  
 aactactttc cctcccatc taaactgttc ttttctaggg gccaacctct cctcttgtga 780  
 acgagctctc atcctttcct ggatacacag cttcttcttt cctgcatact ttttctttg 840  
 tacagcatga aaatatacta ttgtgtcttg tttaaaaaaa aaaaaaaaaa actcga 896

<210> 89  
 <211> 857  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (550)  
 <223> n equals a,t,g, or c

<400> 89  
 gaattcggca cgagcttatg gtctttatta cttacatgct tcatcattcc tgtacaactg 60  
 tagcaaatat aaacatcaaa atgcctctag atcttctttt cctcataaca tattttctcc 120  
 tttctgtcat tttgaaagtg ttgtatattg atgcccctgg tcatttagga atgcccattt 180  
 ctctttgttc tagtgctgtt gtgtgggtga aggttgacct agtktcagag aaggggtgag 240  
 gaaaggcagg ggcmaaaaga ataaaggaaa gagtтыcttt tgagtacmaa taaaaactac 300  
 cagggaaatc tgattttacca aaatgttcta gggattagat tgcaacyatt aaatatgatt 360  
 taacygaagg acccctcagg ctttttttat tcccttcttt tttactaaaa ttctttatcg 420  
 aattgcagaa tcctttttca ttkgtctcag taagtaaact tcaataaatt ataggtaaaa 480  
 ttttagaaaac tgaaaattct gttagagatt agaatgcatt aatatttctt gccttaggct 540  
 ggggtgcagtn gctcacgcct gtgacccag cactttggga ggctgaggcg ggcacatcac 600  
 ctgaggtcag gagttcggga ccagcctggc cgacgtggtg gaaccccgct tctactagaa 660  
 atacaaaagt tggccaggca tgggtggcagg cccggctact tggtaggctg aggcaggaga 720  
 atcgcttgag ccagggagggt ggaggttgca gtgagccgag atcggtgccac agccgagatc 780  
 tgtgagcctg ggccacagag cgagactcca tctcaaacaa acaaacaaac aaacaaaaaa 840  
 aaaaaaaaaa aactcga 857

<210> 90  
 <211> 561  
 <212> DNA  
 <213> Homo sapiens

<400> 90  
 agggatcccc cgggctgcag gaattcggca cgagtctact ctcaaaaaat tcagaaacat 60  
 atattttgtg gcatttgcag gtgcaacagt acacacaaac atacataaag agagcaattg 120

|            |             |            |            |             |            |     |
|------------|-------------|------------|------------|-------------|------------|-----|
| ataaggcaaa | taaggtaaca  | tttaacaata | atctgataca | cataaataga  | gaaagagcaa | 180 |
| ttgataaagt | aaatgaggta  | aaatttaaca | ataatctgag | caaaagggtat | atgtgttttc | 240 |
| tttgagacag | tctgattctt  | gcaactttat | ctgtaagttg | gaactttatt  | ccaaacatga | 300 |
| ttgaaaaaaa | accccgccact | tggcaacttc | ttctcttttt | cagcctagaa  | atgtctgtgt | 360 |
| taagtgggtt | tttattttat  | gttgttggtt | gttgttattg | ttgttttggt  | gccaggctcc | 420 |
| aactcacaaa | atacgagttt  | aaaaactgcg | ttgttatttt | tagagatttg  | tgataataca | 480 |
| acttggtata | aaattttatt  | ctcaataaat | ataatttctc | tactaaaaaa  | aaaaaaaaaa | 540 |
| aaaaaaaaaa | aaaaaactcg  | a          |            |             |            | 561 |

<210> 91  
 <211> 655  
 <212> DNA  
 <213> Homo sapiens

|            |             |            |            |            |             |     |
|------------|-------------|------------|------------|------------|-------------|-----|
| <400> 91   |             |            |            |            |             |     |
| gaattcggca | cgagctcaaa  | caaacaaaca | aacaaacaaa | ctagcatgga | gagggacaca  | 60  |
| agagagaaat | gtttatgggtc | cttgccttac | cctaaattac | tgtgcaacct | tttggcaagt  | 120 |
| cacttcctct | ctattctgag  | tttctttatc | tattcaattg | ggttcttaga | tttgggtggtc | 180 |
| tctaacactc | tcccagtttt  | tcaatttgat | gttacattct | acccagtgac | caaattcata  | 240 |
| ttccagaagc | atagtatgct  | atgtcatacc | gcaaactctg | taaacgttcc | tgatatggtt  | 300 |
| tggctgtgtc | cccacccaaa  | tctcatcttg | aattgcagtt | cccataatcc | acacatgtaa  | 360 |
| caggagggac | caggtggagc  | taattgaacc | atgggggcca | tctcccccca | cctgttcttg  | 420 |
| tgatagttag | ttagttctca  | tgagatctga | tggttttata | agggtcttcc | cccttcaactg | 480 |
| ggcactcatt | cttctgcctc  | ctgttgccac | atgaggaagg | acatgtttgc | ttccccctct  | 540 |
| gccatgattg | taagtttctt  | gaggcctccc | agctatgctg | aactgagagt | caattaaact  | 600 |
| tttttccttt | ataaatttaa  | aaaaaaaaaa | aaaaaactct | gacggggggg | ccctg       | 655 |

<210> 92  
 <211> 848  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (2)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (17)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (81)  
 <223> n equals a,t,g, or c

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 92   |            |            |            |            |            |     |
| cnaggccwrr | aacccccaag | gctggcactg | agctgtgact | gctttaacag | cccccaagat | 60  |
| ttggtcagtt | tgagggtggg | nagactcaga | ttgttgctga | aagttcagta | acacagtcct | 120 |
| ggtctttggc | cctagagaaa | ctttttatat | gagaagtgtt | ctctatatac | atgtttgagg | 180 |
| tgactctgga | atggattatg | aggtcatatc | tcaaaatgtc | agaaaacgtt | atagagcact | 240 |
| cgaacttttg | tatttgctgc | ttaacctcaa | tattacagcc | acaaacaagg | ggtaccaaga | 300 |
| caaagtataa | ctgagcataa | gcagaaaatg | ttaaccctcc | aggtttcttt | cttaagcaca | 360 |
| ataaaagtgg | gagcgaacaa | cacaaggata | tttttacatt | tgaccctgtc | caaaagtagc | 420 |
| acaccctatc | cttgtgcatc | tatttgtaca | aggaaatata | tgattagaag | gawtagaacc | 480 |

<220>  
<221> SITE  
<222> (299)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (2257)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (2264)

<223> n equals a,t,g, or c

<400> 95

|             |             |             |             |             |             |      |
|-------------|-------------|-------------|-------------|-------------|-------------|------|
| aaattttctca | acaccacagt  | cagctaagtc  | acctactgcc  | accttcgaaa  | aacacggaga  | 60   |
| gcacctaccc  | agaggagaag  | gtagatttgg  | agtaagccgc  | cgtcgacata  | attcctctga  | 120  |
| tggttttttt  | aacaatggtc  | ccctacgaac  | tgcaggagat  | tcttggcacc  | agscctccct  | 180  |
| gttccgccat  | gattctkttg  | actctggwgt  | ctctaaggga  | gcatatgctg  | gaatcacagg  | 240  |
| gaacctatct  | ggttggcata  | gctcttccc   | aggctcatgat | ggcatgagcc  | aacgtakgna  | 300  |
| ggtggcacag  | ggaaccatcg  | ccattggaat  | ggcagcttcc  | actcccggaa  | agggtgtgct  | 360  |
| tttcaggaaa  | agccacctat  | ggagattagg  | gaagaaaaga  | aagaagacaa  | ggtggaaaag  | 420  |
| ttgcagtttg  | aagaggagga  | ctttccttcc  | ttgaatccag  | aagctggcaa  | acagcatcag  | 480  |
| ccatgcagac  | ctattgggac  | accttctgga  | gtatgggaaa  | acccgcctag  | tgccaagcaa  | 540  |
| ccctccaaga  | tgctagtatt  | caaaaaagtt  | tccaaagagg  | atcctgctgc  | tgcttctct   | 600  |
| gctgcattca  | cctcaccagg  | atctcaccat  | gcaaattggga | acaaattgtc  | atccgtgggt  | 660  |
| ccaagtgtct  | ataagaacct  | ggttcctaag  | cctgtaccac  | ctccttccaa  | gcctaatagca | 720  |
| tggaaagcta  | acaggatgga  | gcacaagtca  | ggatcccttt  | cctctagccg  | ggagtctgct  | 780  |
| tttaccagtc  | caatctctgt  | taccaaaacca | gtgggtactgg | ctagtgggtgc | agctctgagt  | 840  |
| tctcccaaag  | agagtcacctc | cagcaccacc  | cctccaattg  | agatcagctc  | ctctcgtctg  | 900  |
| accaagttga  | cccgcgcaac  | caccgacagg  | aagagtgagt  | tcctgaaaac  | tctgaaggat  | 960  |
| gaccggaatg  | gagacttctc  | agagaataga  | gactgtgaca  | agctggaaga  | tttggaggac  | 1020 |
| aacagcacac  | ctgaacccaa  | ggaaaatggg  | gaggaaggct  | gtcatcaaaa  | tggtcttgcc  | 1080 |
| ctccctgtag  | tggagaaggg  | ggagggtctc  | tcacactctc  | tagaagcaga  | gcacaggtta  | 1140 |
| ttgaaaagcta | tgggttggca  | ggaatactct  | gaaaatgatg  | agaattgcct  | tcccctcaca  | 1200 |
| gaggatgagc  | tcaaagagtt  | ccacatgaag  | acagagcagc  | tgagaagaaa  | tggctttgga  | 1260 |
| aagaatggct  | tcttgcagag  | ccgcagttcc  | agtctgttct  | ccccttggag  | aagcacttgc  | 1320 |
| aaagcagagt  | ttgaggactc  | agacaccgaa  | accagtagca  | gtgaaacatc  | agatgacgat  | 1380 |
| gcctggaagt  | aggcatataa  | atgctcacag  | ttaaatctga  | cccagtaaac  | tctgtgtgtt  | 1440 |
| tagggagtat  | acaaaagaaa  | tcgttctttt  | ccttttctta  | tggtgttgaa  | tacttcattc  | 1500 |
| acaagggaaa  | taatcatatc  | ccaaagagag  | agcaattggc  | ttgttttgct  | tttgttattg  | 1560 |
| ttcttccctg  | ttatctgctt  | tatagagaga  | agtttgtgtg  | gtgggacaga  | ttttttaaac  | 1620 |
| acactcayac  | acacacacac  | atacacaccc  | agtatatatg  | ggcgatgca   | caggtaggag  | 1680 |
| ctggcagtg   | aggggaagagg | agacactggg  | ctgcagcaac  | agcttctact  | accagccctt  | 1740 |
| ggggcactca  | cccctgtgat  | caagcaatca  | ttgtcaatga  | caaagtgact  | attgaagtta  | 1800 |
| taattgtatt  | aaattaatgc  | taataatttg  | gatattttat  | tttatttttg  | gctgctcggg  | 1860 |
| taacttttag  | ccttaaccaa  | gcatatgtgg  | gttttttttg  | ttgttttttt  | ttgttttttt  | 1920 |
| tttctttttc  | ctttttgggt  | acagctgtaa  | aataatttga  | tataggaaat  | gttgtgttat  | 1980 |
| tcttgcagcc  | ttgatattca  | gggtggattg  | taaaaataaa  | atttttgtga  | gatttcaaag  | 2040 |
| attaagatta  | cttttgatac  | attatttaca  | gattttaaag  | atgtgggttat | cacaagtctc  | 2100 |
| gagggggaaa  | tctactgcata | aaataactaa  | ccttggaaata | atattttgca  | tcagtttggg  | 2160 |
| taaaaaaaaa  | aaaaaaaaaa  | aaaaaaaaaa  | aaaaaaaaaa  | aaaaaaaaaa  | aaaaaaaaaa  | 2220 |
| aaaaaaaaaa  | aaaaaaaaaa  | aaaaaaaagg  | gggggggnccc | cccn        |             | 2264 |

<210> 96

<211> 1005

<212> DNA

<213> Homo sapiens

<220>  
 <221> SITE  
 <222> (488)  
 <223> n equals a,t,g, or c

<400> 96  
 caggaaacca aatgatgtcc ctgcccgcgcg cccccgcgcg gcggtcttcc ccttgtact 60  
 ggagaagctc gaacaccccg tcacagctct ctttgcctatg ggaactggga cactttttta 120  
 cacgatgttg ccgcgcgtccc caccctaacc cccacctccc ggccctgagc gtgtgtcgtc 180  
 gccatatttt acacaaaatc atgttgtggg agccctcgtc cccctcctg cccgctctac 240  
 cctgacctgg gcttgtcatc tgctggaaca ggcgccatgg ggccctgccag ccctgcctgc 300  
 caggtccctt agcacctgtc ccctgcctg tctccagtgg gaaggtagcc tggccaggcg 360  
 gggcctcccc ttcgacgacc aggcctcgtt cacaacggac gtgacatgtt gcttttttta 420  
 attttatttt tttatgaaaa gaaccagtgt caatccgcag accctctgtg aagccaggcc 480  
 ggccgggncg agccagcagc ccctctccct agactcagag gcgcgcgggg gaggggtggc 540  
 cccgcgcagg cttcaggggc ccctcccca ccaaaggggtt cactctcacac ttgaatgtac 600  
 aaccaccccc actgtcggga aggcctccgt cctcgccccc tgctcttgc tgctgtcctg 660  
 tccccgagcc cctgcaggtc cccccccgccc ccccaactca agagttagag caggtggctg 720  
 caggccttgg gcccggaggg aaggccactg ccggccactt ggggcagaca cagacacctc 780  
 aaggatctgt cacggaaggc gtcccttttcc cttgtagcta acgttaggcc tgagttagctc 840  
 cctccatcc ttgtagacgc tccagtccct actactgtga cggcatttcc atccctcccc 900  
 tgcccgggaa gggaccttgc agggacctct ccctccaaaa aaagaaaaaa agaaaaaraa 960  
 aaaaaaawa aaaactccga gggggggccc ggtaccaat tcgcc 1005

<210> 97  
 <211> 556  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (513)  
 <223> n equals a,t,g, or c

<400> 97  
 gaattcggca cgagaagatg ggcagccaat ggtgctcaaa ctcaaggact ggccctcctgg 60  
 ggaagatttt cgagacatga tgccaaccag gtttgaagat ctgatggaga accttctctt 120  
 gccagaatat accaaacgag atggcaggct caatctggcc tctaggctac ctagctactt 180  
 tgtaaggcct gatctgggcc ccaagatgta caacgcctat ggtatgaggg agaggctaaa 240  
 attgctcttt tgggggactg ttgttcttat ttcaactata gaaggatatac tgtggtcaat 300  
 gtcagggtata gagatgattg caggcaagtg ctggagaagt gaatagtatac caagggtggc 360  
 ttgaatatgt ttgcttttgt catattggtt ttcataacat ccatgtgggc ccagaccata 420  
 agcttacatg tctccagtag tgaggaaagt tctgtttaag aactctaccc aaggagccat 480  
 attctcgaag gggggggccg gtaccaaat cgnccatag tggagtcgta ttacaattca 540  
 ctgggcccgtc cgttta 556

<210> 98  
 <211> 886  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (92)  
 <223> n equals a,t,g, or c



<220>  
 <221> SITE  
 <222> (886)  
 <223> n equals a,t,g, or c

<400> 98  
 atttcatttt agggcatact gggcttacte tctctccagc tgtctgtgga ttgatttgat 60  
 tttaatgttc gagttttaca gcaacagctg anaaaccatg aactattcta ggaactgtgt 120  
 tggaactctt taaaataaag aaaagaggag gaggagagga agaaagaaaa ccaacttaag 180  
 aagccttgga ctttgaggag acagaaagcc accagccaat ggagaacaaa gagatgtttc 240  
 ctttcccttt ctttcacctt gtcattctgg gtttccctct gcttccctct ttccttcccc 300  
 cttaaaaagt gtattcctgg ttgggtctgtc tgtctgtcct gtcccttggt gtgatcctgg 360  
 catggtgata tgctccactt tgcattatcc atggtctctt accagcgcac aagtcagtgg 420  
 ggagatcta accacgcctg gtgggtgagga agctgaattt ccaggcctgc gtcccatgta 480  
 gcctctccat gaactgcaga aggcattgtt tgcattggtt ccagtaagtg gctccctctc 540  
 accgtgttca ttgtcaaatg agagcaaaact ttaggtgttg gctccattgt acactctact 600  
 tgctctgtc ccctccctcc aaccagggtt catgtcagtg cacaacccat gtgcctctggc 660  
 gaagctggtg ctgtgagtga tgtttcccat acaactcagg gatgccagggt ggcttaccct 720  
 gagatagtca ttttgggcac ataacagtgt aggaatgaaa catggatttc attgatattt 780  
 aaatctgtca atttcatttt ttgttaaatgt tttcccttga tgacttttta gcaatttaac 840  
 aaataaaatg gacaattgtc ttaaaaaaaa aaaaaaaaaa ctcgan 886

<210> 99  
 <211> 597  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (12)  
 <223> n equals a,t,g, or c

<400> 99  
 cttgccatat ancaagctga attacctcat aaggaacaaa gtggagytca cgcgktgccc 60  
 cgtctagact atgatcccc gctgcagaat tcggcacgag cagtccagaa actgcgtgcc 120  
 ctgccctttg cttgggcccc tctaccagta tgtccagcat gtgcccgggg gccctcagct 180  
 cccctggggc ccagcccacc caagacacag ctcttggtcg tgaacatgaa gatgagccaa 240  
 actctagtgg ctcttctga aagaaatgag aatgcccagc cacacccatg cacgctttgt 300  
 tcttttttat ttaatactga ggaaccggag tggaggggtc ctgcccgggt gcagtgaccc 360  
 tgagggaagt caggagagcc ctgggctgca gaagagtccc cccacagggt ccgaagcaag 420  
 cttgtcctgg tgcattcaga ctgctcacag caggctttgg gccctcactc tccagatccc 480  
 agagagccct ccagggtcc cagctctcgg gccagtccc amgtcctcga agggggggccg 540  
 gtaaccaatt cgccctatag tgagtctgtat tacaattcac tggcctgtct tttacaa 597

<210> 100  
 <211> 706  
 <212> DNA  
 <213> Homo sapiens

<400> 100  
 gtttttgtgt atctgtctta ggctttttta tttgaggtta ccattaagct tgcaaataac 60  
 atgttataag ccattatgtt aaagtgatga cagcactgat tgaaaaagaa aaaaacaaat 120  
 taacaaacaa gcacagagat aactaataac actacattta attttattcc cttttttaac 180  
 tttttattta tttatatatt atagtgttat gtcttgaaaa gttgtttagt ttattatttt 240  
 gataggttta tcttttagtc tttctacaca agatatgagt agtttacaca ctacaattgc 300  
 agtgtcataa tattctgtgt ttgtctgtga gtwtgtgtacc ttcagacaat ttcttattgc 360

```

tcccttttct ttcagaatga agaactccct ttagcatttc ttatagcata ggtctggtgt 420
taatgaggtc cctcagcttt ttgtttacct gggaaaatct ttatttctct ttcacgtttg 480
aagtctatct ttactggatg tactattcta ggatgaaagt tttttccttc aacactttaa 540
atatgttatg tcactttctc ctggcatgta aggtttccct gagaagcctg ctgcaagatg 600
tgtgggagct catttgatg ttatttgttt cttttctcty actgccttct ttttaagattc 660
tttctttatc cttgaccttt gggagtttga ttattaaatg cctcga 706

```

<210> 101  
 <211> 1070  
 <212> DNA  
 <213> Homo sapiens

```

<400> 101
gaattcggca cgaggtgata cttctgaaga ctgcagggag aatccgtttt ccagcttttt 60
tcatccacca gaggccacct gtattcccta tcccacaacc ctagcccctt cctctatctt 120
tgaagtggac tatttcatcc cctgtttcta tcatgacagt gccttctctc atattgacct 180
tcttgcccta taagattcct tgtgattaca ctgggtccac ctgcataatc aaggctaate 240
tctccatctg gagatcttaa tataatcaca tctacaaagt ccctttggcc attgaagtaa 300
catatttata tgtattcatt attaggatgt gggacacttt tgtcagggac agggattttt 360
cagcctacct ttttcttcac cttttgccac cactctcagc ctgtggtctc aatgccagcc 420
tttacctgc taccgccatt gtctgggtag ktcataccag ycctcaagac tagcctcagg 480
cattgcctct tctgggaata catectctta caggccagga tatgactcat ggggtgcattc 540
ctaatagcac ttcamttatt tctactgtca ccacactgat ctgtaattac ttgatttgtc 600
tgactcttct gggggcttgt aagcattctg gcacagagaa ctatgactta ctggggctta 660
catctcttgc taaacacagt acctaaaatt tagtaggcat tccctcataa acatgaatga 720
atgaatcaaa gaatgaataa acatttagga aatgatgttg tgttggtcaa cttctttctt 780
catcactgtt aaagataaaa gaatgccaaag ccaggttgtt cagacagaag caagcaccac 840
atccctgaga gaggcagaca tctgggcagc catgtgtgag aagtcggttg cattccccat 900
acacagttgt ctttgcagct gtactcttaa ccactgtaac cacagaagtg gggaaacaat 960
aggggtgggt gaagtgaata gaaaattttc caaaacttca tttatctaata aaatacacagat 1020
atttaaaaaa aaaaaaaaaa aactcgaggg gggggccgta cccaatcgcc 1070

```

<210> 102  
 <211> 66  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (66)  
 <223> Xaa equals stop translation

```

<400> 102
Met Phe Leu Gly Asn Ser Leu Glu Thr Leu Thr Asn Arg Ile Leu Val
  1             5             10             15

Ser Leu Ala Ser Val Phe Leu Leu Pro Pro Arg Lys Gly Ala Gly Leu
      20             25             30

Cys Ser Arg Gln Asp Arg Arg Ala Pro His Ala Tyr Thr Ser Leu Pro
      35             40             45

Glu Leu Ser Pro Arg Ala Ser Gly Pro Cys Leu Glu Thr Gly Leu Ala
      50             55             60

Leu Xaa

```

```
<210> 103
<211> 72
<212> PRT
<213> Homo sapiens
```

```

<220>
<221> SITE
<222> (72)
<223> Xaa equals stop translation

```

<400> 103  
Met Tyr Gln Glu Thr Arg Ser Ser Pro Thr Asn Thr Leu Arg Pro Trp  
1 5 10 15

Pro Arg Gly Thr Ser Arg Cys Leu Arg Cys Ser Phe Cys Arg Leu Ser  
20 25 30

Phe Ala His Ser Gln Gly Ile Gln Gln Leu Ser Cys Ser Leu Ser Arg  
35 40 45

Thr Asp Ser Arg Ser Phe Thr Ile Ser Lys Thr Leu Trp Ala His Asn  
50 55 60

Arg Arg His Ser Phe Gln Gly Xaa  
65 70

```
<210> 104
<211> 51
<212> PRT
<213> Homo sapiens
```

```
<220>
<221> SITE
<222> (51)
<223> Xaa equals stop translation
```

```
<400> 104
Met Asn Ala Tyr Arg Val Lys Pro Ala Val Phe Asp Leu Leu Leu Ala
  1             5             10             15
```

Val Gly Ile Ala Ala Tyr Leu Gly Met Ala Tyr Val Ala Val Gln His  
20 25 30

Phe Ser Leu Leu Tyr Lys Thr Val Gln Arg Leu Leu Val Lys Ala Lys  
35 40 45

Thr Gln Xaa  
50

```
<210> 105
<211> 221
<212> PRT
<213> Homo sapiens
```

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (221)

&lt;223&gt; Xaa equals stop translation

&lt;400&gt; 105

Met Asn Val Phe Arg Ile Leu Gly Asp Leu Ser His Leu Leu Ala Met  
 1 5 10 15

Ile Leu Leu Leu Gly Lys Ile Trp Arg Ser Lys Cys Cys Lys Gly Ile  
 20 25 30

Ser Gly Lys Ser Gln Ile Leu Phe Ala Leu Val Phe Thr Thr Arg Tyr  
 35 40 45

Leu Asp Leu Phe Thr Asn Phe Ile Ser Ile Tyr Asn Thr Val Met Lys  
 50 55 60

Val Val Phe Leu Leu Cys Ala Tyr Val Thr Val Tyr Met Ile Tyr Gly  
 65 70 75 80

Lys Phe Arg Lys Thr Phe Asp Ser Glu Asn Asp Thr Phe Arg Leu Glu  
 85 90 95

Phe Leu Leu Val Pro Val Ile Gly Leu Ser Phe Leu Glu Asn Tyr Ser  
 100 105 110

Phe Thr Leu Leu Glu Ile Leu Trp Thr Phe Ser Ile Tyr Leu Glu Ser  
 115 120 125

Val Ala Ile Leu Pro Gln Leu Phe Met Ile Ser Lys Thr Gly Glu Ala  
 130 135 140

Glu Thr Ile Thr Thr His Tyr Leu Phe Phe Leu Gly Leu Tyr Arg Ala  
 145 150 155 160

Leu Tyr Leu Ala Asn Trp Ile Arg Arg Tyr Gln Thr Glu Asn Phe Tyr  
 165 170 175

Asp Gln Ile Ala Val Val Ser Gly Val Val Gln Thr Ile Phe Tyr Cys  
 180 185 190

Asp Phe Phe Tyr Leu Tyr Gly Thr Lys Gly Arg Ser Trp Asp Asp Ser  
 195 200 205

Asn Ala Asp Thr Gly Leu Arg Ser Tyr Ser Ser Ile Xaa  
 210 215 220

&lt;210&gt; 106

&lt;211&gt; 114

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (114)

<223> Xaa equals stop translation.

<400> 106

Met Leu Ser His Val Phe Pro Ile Cys Thr Arg Pro Cys Leu Ser Met  
1 5 10 15

Tyr Phe Pro Cys Val Pro Ser Met Tyr Leu Val Tyr Phe Leu Pro Leu  
20 25 30

Asn His Gly Ile Leu Leu Thr Glu Pro Tyr Val Pro Tyr Pro Ala His  
35 40 45

Cys Tyr Ala Leu Phe Pro Asn Ser Cys Leu Val Gly Pro Ser Thr Pro  
50 55 60

Ser Pro Cys His Arg Ile Ser Ile Ser Ala Gln Ile Pro Pro Ile Ser  
65 70 75 80

Ile Ala Phe Met Tyr Tyr Pro Gln Ser Thr Leu Thr Ile Ile Phe Ser  
85 90 95

Gln Asp Cys Ser Leu Leu Phe Cys Val Phe Leu Arg Gly Ile Lys Glu  
100 105 110

Lys Xaa

<210> 107

<211> 132

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (132)

<223> Xaa equals stop translation

<400> 107

Met Glu Asn Ile Ser Xaa Asp Val Ile Val Gly Arg Cys Leu Ala Ile  
1 5 10 15

Leu Lys Gly Ile Phe Gly Ser Ser Ala Val Pro Gln Pro Lys Glu Thr  
20 25 30

Val Val Ser Arg Trp Arg Ala Asp Pro Tyr Val Ala Ala Gly Ser Ser  
35 40 45

Gly Asn Asp Tyr Asp Leu Met Ala Gln Pro Ile Thr Pro Gly Pro Ser  
50 55 60

Ile Pro Gly Ala Pro Gln Pro Ile Pro Arg Leu Phe Phe Ala Gly Glu  
65 70 75 80

His Thr Ile Arg Asn Tyr Pro Ala Thr Val His Gly Ala Leu Leu Ser  
85 90 95

Gly Leu Arg Glu Ala Gly Arg Ile Ala Asp Gln Phe Leu Gly Ala Met  
100 105 110

Tyr Thr Leu Pro Arg Gln Ala Thr Pro Gly Val Pro Ala Gln Gln Ser  
115 120 125

Pro Ser Met Xaa  
130

<210> 108

<211> 88

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (88)

<223> Xaa equals stop translation

<400> 108

Met Glu Asn Thr Phe Phe Val Phe Leu Val Ser Ala Leu Leu Leu Ala  
1 5 10 15

Val Ile Tyr Leu Asn Ile Gln Val Val Arg Gly Gln Arg Lys Val Ile  
20 25 30

Cys Leu Leu Lys Glu Gln Ile Ser Asn Glu Gly Glu Asp Lys Ile Phe  
35 40 45

Leu Ile Asn Lys Leu His Ser Ile Tyr Glu Arg Lys Glu Arg Glu Glu  
50 55 60

Arg Ser Arg Val Gly Thr Thr Glu Glu Ala Ala Ala Pro Pro Ala Leu  
65 70 75 80

Leu Thr Asp Glu Gln Asp Ala Xaa  
85

<210> 109

<211> 64

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (64)

<223> Xaa equals stop translation

<400> 109

Met Ser Ala Ala Ser Phe Trp Pro Arg Pro Val Ala Ser Ile Ser Val  
1 5 10 15

Phe Ile Leu Leu Gly Ser Ser Val Thr Thr Ser Lys Thr Arg Ser Gly  
                   20                  25                  30

Val Ile Ser Ser Ala Gly Lys Pro Ile Trp Val Gln Ser Pro His Leu  
                   35                  40                  45

Ala Leu Leu Glu Val Leu Leu Gln Lys Gly Ile Val Pro Glu Lys Xaa  
                   50                  55                  60

<210> 110  
 <211> 41  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (41)  
 <223> Xaa equals stop translation

<400> 110  
 Met Leu Ser Leu Thr Val Ser Leu Lys Ser Val Ser Ile Ala Ala Gln  
       1                  5                  10                  15

Ser Leu Phe Leu Asp Leu His Phe Pro Ile Gln Met Thr Leu Val His  
                   20                  25                  30

Lys Glu Ile Ala Lys Leu Glu Thr Xaa  
                   35                  40

<210> 111  
 <211> 48  
 <212> PRT  
 <213> Homo sapiens

<400> 111  
 Met Thr Leu Tyr Leu Asn Thr Asn Lys Asn Lys Pro Ser Ala Leu Tyr  
       1                  5                  10                  15

Ser Leu Phe Phe Cys Phe Ile Ser Thr Pro Tyr Thr Tyr Gly Leu Gln  
                   20                  25                  30

Ile Cys Tyr Lys Cys Phe Phe Ile Tyr Ile Phe Val Ile Cys Leu Tyr  
                   35                  40                  45

<210> 112  
 <211> 38  
 <212> PRT  
 <213> Homo sapiens

&lt;400&gt; 112

Met Phe Leu Thr Tyr Leu Thr Tyr Asn Val Ile Ser Leu Asn Glu Val  
 1 5 10 15

Val Ser Thr Ser Ala His Gln Ile Ala Val Ile Val Asn Tyr Leu Phe  
 20 25 30

Met Gly Asp Asn Leu Phe  
 35

&lt;210&gt; 113

&lt;211&gt; 45

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (45)

&lt;223&gt; Xaa equals stop translation

&lt;400&gt; 113

Met Pro His Pro Ile Trp Cys Tyr Arg Asn Ser Ala Arg Lys Val His  
 1 5 10 15

Leu Phe Ala Cys Leu Phe Ile Leu Tyr Ile Leu Pro Ile Leu Tyr Ser  
 20 25 30

Cys Thr Lys Asp Leu Ile Glu Asn Leu Lys Ser Ser Xaa  
 35 40 45

&lt;210&gt; 114

&lt;211&gt; 39

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (39)

&lt;223&gt; Xaa equals stop translation

&lt;400&gt; 114

Met Leu Arg Ile Lys Ser Cys Leu Leu Leu Phe Phe Ile Phe Phe Pro  
 1 5 10 15

Phe Asn Ile Lys Asp Ser Gln Val Pro Ala Asn Tyr Ile Ala Thr Phe  
 20 25 30

Ser Arg Lys Cys Ser Phe Xaa  
 35

&lt;210&gt; 115

&lt;211&gt; 25

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens



<220>  
 <221> SITE  
 <222> (25)  
 <223> Xaa equals stop translation

<400> 115  
 Met Ser Leu Gln Pro Pro Phe Val Met Leu Leu Leu Ser Thr Ala Gln  
           1                  5                  10                  15  
 His His Glu Leu Gly Ala Asp Thr Xaa  
                   20                  25

<210> 116  
 <211> 50  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (50)  
 <223> Xaa equals stop translation

<400> 116  
 Met Pro Lys Gly Ile Leu Val Ser Phe Leu Cys Ala Leu Ser Pro Arg  
           1                  5                  10                  15  
 Thr Gly Met Leu Gly Val Ser Phe Leu Leu Phe Ile Gly Ile Leu Leu  
                   20                  25                  30  
 Arg His Thr Ser Cys Leu Phe Cys Met Val Phe Ala Lys Met Pro Leu  
           35                  40                  45  
 Ala Xaa  
       50

<210> 117  
 <211> 53  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (13)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 117  
 Met Cys Pro Pro Ser Gln Arg Ala Pro Thr His Leu Xaa Cys Pro Trp  
           1                  5                  10                  15  
 Val Asp Pro Gly Pro Val Val Leu Gly Leu Ser Leu Trp Val Leu Ala  
                   20                  25                  30  
 Gly Gly Met Gly Glu Gly Gly Glu Gln Leu Pro Ala Pro Leu Leu Cys  
           35                  40                  45  
 Gly Ser Ser Phe Phe

50

<210> 118  
 <211> 268  
 <212> PRT  
 <213> Homo sapiens

<400> 118

Met Glu Val Ala Glu Pro Ser Ser Pro Thr Glu Glu Glu Glu Glu Glu  
 1 5 10 15

Glu Glu His Ser Ala Glu Pro Arg Pro Arg Thr Arg Ser Asn Pro Glu  
 20 25 30

Gly Ala Glu Asp Arg Ala Val Gly Ala Gln Ala Ser Val Gly Ser Arg  
 35 40 45

Ser Glu Gly Glu Gly Glu Ala Ala Ser Ala Asp Asp Gly Ser Leu Asn  
 50 55 60

Thr Ser Gly Ala Gly Pro Lys Ser Trp Gln Val Pro Pro Pro Ala Pro  
 65 70 75 80

Glu Val Gln Ile Arg Thr Pro Arg Val Asn Cys Pro Glu Lys Val Ile  
 85 90 95

Ile Cys Leu Asp Leu Ser Glu Glu Met Ser Leu Pro Lys Leu Glu Ser  
 100 105 110

Phe Asn Gly Ser Lys Thr Asn Ala Leu Asn Val Ser Gln Lys Met Ile  
 115 120 125

Glu Met Phe Val Arg Thr Lys His Lys Ile Asp Lys Ser His Glu Phe  
 130 135 140

Ala Leu Val Val Val Asn Asp Asp Thr Ala Trp Leu Ser Gly Leu Thr  
 145 150 155 160

Ser Asp Pro Arg Glu Leu Cys Ser Cys Leu Tyr Asp Leu Glu Thr Ala  
 165 170 175

Ser Cys Ser Thr Phe Asn Leu Glu Gly Leu Phe Ser Leu Ile Gln Gln  
 180 185 190

Lys Thr Glu Leu Pro Val Thr Glu Asn Val Gln Thr Ile Pro Pro Pro  
 195 200 205

Tyr Val Val Arg Thr Ile Leu Val Tyr Ser Arg Pro Pro Cys Gln Pro  
 210 215 220

Gln Phe Ser Leu Thr Glu Pro Met Lys Lys Met Phe Gln Cys Pro Tyr  
 225 230 235 240

Phe Phe Phe Asp Val Val Tyr Ile His Asn Gly Thr Glu Glu Lys Glu  
 245 250 255

Glu Glu Asp Glu Ala Ile Glu Val Glu Ala Thr Val

260

265

<210> 119  
 <211> 38  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (38)  
 <223> Xaa equals stop translation

<400> 119  
 Met Gly Cys Phe Pro Leu Trp Leu Val Thr Leu Ala Val Gly Asp Ala  
           1                  5                  10                  15

Leu Pro Pro Thr Ala Cys Glu Leu Trp Gly Val Pro Ala Pro Pro Leu  
                   20                  25                  30

His Leu Ala Glu Glu Xaa  
           35

<210> 120  
 <211> 122  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (122)  
 <223> Xaa equals stop translation

<400> 120  
 Met Gly Leu Trp Leu Gly Met Leu Ala Cys Val Phe Leu Ala Thr Ala  
           1                  5                  10                  15

Ala Phe Val Ala Tyr Thr Ala Arg Leu Asp Trp Lys Leu Ala Ala Glu  
                   20                  25                  30

Glu Ala Lys Lys His Ser Gly Arg Gln Gln Gln Gln Arg Ala Glu Ser  
           35                  40                  45

Thr Ala Thr Arg Pro Gly Pro Glu Lys Ala Val Leu Ser Ser Val Ala  
           50                  55                  60

Thr Gly Ser Ser Pro Gly Ile Thr Leu Thr Thr Tyr Ser Arg Ser Glu  
           65                  70                  75                  80

Cys His Val Asp Phe Phe Arg Thr Pro Glu Glu Ala His Ala Leu Ser  
                   85                  90                  95

Ala Pro Thr Ser Arg Leu Ser Val Lys Gln Leu Val Ile Arg Arg Gly  
           100                  105                  110

Ala Ala Leu Gly Ala Ala Ser Ala His Xaa  
           115                  120

<210> 121  
 <211> 34  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (34)  
 <223> Xaa equals stop translation

<400> 121  
 Met Ile Gln Thr Phe Pro Ala Tyr Leu Cys Leu Pro Leu Phe Tyr Val  
   1                  5                  10                  15  
 Leu Asp Leu Ala Leu Ala Ser Ala Pro Val Leu Ser His Ser Ala Leu  
                   20                  25                  30  
 Leu Xaa

<210> 122  
 <211> 178  
 <212> PRT  
 <213> Homo sapiens

<400> 122  
 Met Gln Asn Asp Phe Gly Gln Val Trp Arg Trp Val Lys Glu Asp Ser  
   1                  5                  10                  15  
 Ser Tyr Ala Asn Val Gln Asp Gly Phe Asn Gly Asp Thr Pro Leu Ile  
                   20                  25                  30  
 Cys Ala Cys Arg Arg Gly His Val Arg Ile Val Ser Phe Leu Leu Arg  
           35                  40                  45  
 Arg Asn Ala Asn Val Asn Leu Lys Asn Gln Lys Glu Arg Thr Cys Leu  
           50                  55                  60  
 His Tyr Ala Val Lys Lys Lys Phe Thr Phe Ile Asp Tyr Leu Leu Ile  
   65                  70                  75                  80  
 Ile Leu Leu Met Pro Val Leu Leu Ile Gly Tyr Phe Leu Met Val Ser  
                   85                  90                  95  
 Lys Thr Lys Gln Asn Glu Ala Leu Val Arg Met Leu Leu Asp Ala Gly  
           100                  105                  110  
 Val Glu Val Asn Ala Thr Asp Cys Tyr Gly Cys Thr Ala Leu His Tyr  
           115                  120                  125  
 Ala Cys Glu Met Lys Asn Gln Ser Leu Ile Pro Leu Leu Leu Glu Ala  
           130                  135                  140  
 Arg Ala Asp Pro Thr Ile Lys Asn Lys His Gly Glu Ser Ser Leu Asp  
   145                  150                  155                  160

Ile Ala Arg Arg Leu Lys Phe Ser Gln Ile Glu Leu Met Leu Arg Lys  
 165 170 175

Ala Leu

<210> 123

<211> 46

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (46)

<223> Xaa equals stop translation

<400> 123

Met Ile Leu Gln Ser Leu Leu Phe Leu Gln Arg Leu Leu Met Ile Ser  
 1 5 10 15

Thr Lys Pro Ala Val Val Leu Leu Trp Pro Leu Leu Lys Lys Val Glu  
 20 25 30

Asn Thr Leu Met Gln His Val His Pro Asn Leu Pro Ala Xaa  
 35 40 45

<210> 124

<211> 67

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (12)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (67)

<223> Xaa equals stop translation

<400> 124

Met Asn Leu Ser Ile Ile Leu Pro Asn Ser Phe Xaa His Leu Cys Asn  
 1 5 10 15

Phe Ser Leu Phe Leu Leu Pro Leu Pro Val Pro Ser Gln Pro Leu Ile  
 20 25 30

Cys Ser Gly Asn Tyr Gln Ser Ser Phe Cys His Tyr Arg Leu Ile Cys  
 35 40 45

Ile Phe Lys Glu Ile Tyr Ile His Gly Thr Ile His His Leu Cys Phe  
 50 55 60

Val Val Xaa

65

&lt;210&gt; 125

&lt;211&gt; 337

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 125

Met Glu Ile Arg Glu Glu Lys Lys Glu Asp Lys Val Glu Lys Leu Gln  
 1 5 10 15

Phe Glu Glu Glu Asp Phe Pro Ser Leu Asn Pro Glu Ala Gly Lys Gln  
 20 25 30

His Gln Pro Cys Arg Pro Ile Gly Thr Pro Ser Gly Val Trp Glu Asn  
 35 40 45

Pro Pro Ser Ala Lys Gln Pro Ser Lys Met Leu Val Ile Lys Lys Val  
 50 55 60

Ser Lys Glu Asp Pro Ala Ala Ala Phe Ser Ala Ala Phe Thr Ser Pro  
 65 70 75 80

Gly Ser His His Ala Asn Gly Asn Lys Leu Ser Ser Val Val Pro Ser  
 85 90 95

Val Tyr Lys Asn Leu Val Pro Lys Pro Val Pro Pro Pro Ser Lys Pro  
 100 105 110

Asn Ala Trp Lys Ala Asn Arg Met Glu His Lys Ser Gly Ser Leu Ser  
 115 120 125

Ser Ser Arg Glu Ser Ala Phe Thr Ser Pro Ile Ser Val Thr Lys Pro  
 130 135 140

Val Val Leu Ala Ser Gly Ala Ala Leu Ser Ser Pro Lys Glu Ser Pro  
 145 150 155 160

Ser Ser Thr Thr Pro Pro Ile Glu Ile Ser Ser Ser Arg Leu Thr Lys  
 165 170 175

Leu Thr Arg Arg Thr Thr Asp Arg Lys Ser Glu Phe Leu Lys Thr Leu  
 180 185 190

Lys Asp Asp Arg Asn Gly Asp Phe Ser Glu Asn Arg Asp Cys Asp Lys  
 195 200 205

Leu Glu Asp Leu Glu Asp Asn Ser Thr Pro Glu Pro Lys Glu Asn Gly  
 210 215 220

Glu Glu Gly Cys His Gln Asn Gly Leu Ala Leu Pro Val Val Glu Glu  
 225 230 235 240

Gly Glu Val Leu Ser His Ser Leu Glu Ala Glu His Arg Leu Leu Lys  
 245 250 255

Ala Met Gly Trp Gln Glu Tyr Pro Glu Asn Asp Glu Asn Cys Leu Pro

|                                                                 |     |     |
|-----------------------------------------------------------------|-----|-----|
| 260                                                             | 265 | 270 |
| Leu Thr Glu Asp Glu Leu Lys Glu Phe His Met Lys Thr Glu Gln Leu |     |     |
| 275                                                             | 280 | 285 |
| Arg Arg Asn Gly Phe Gly Lys Asn Gly Phe Leu Gln Ser Arg Ser Ser |     |     |
| 290                                                             | 295 | 300 |
| Ser Leu Phe Ser Pro Trp Arg Ser Thr Cys Lys Ala Glu Phe Glu Asp |     |     |
| 305                                                             | 310 | 315 |
|                                                                 |     | 320 |
| Ser Asp Thr Glu Thr Ser Ser Ser Glu Thr Ser Asp Asp Asp Ala Trp |     |     |
| 325                                                             | 330 | 335 |

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<210> 126  
 <211> 69  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (69)  
 <223> Xaa equals stop translation

<400> 126  
 Met Lys Glu Ala Leu His Trp Ala Leu Phe Ser Met Gln Ala Thr Gly  
 1 5 10 15

His Val Leu Leu His Leu Leu Leu Pro Ala Ala Ala Pro Arg Cys His  
 20 25 30

Arg Gly Arg Ala Ser Pro Gln Gly Gln Gly Leu Ile Pro His Pro Asp  
 35 40 45

Leu Ser Glu Asp Thr Ala Val Lys Ala Gln Ala Leu Ala Phe Pro Ser  
 50 55 60

Glu Gly Leu Asp Xaa  
 65

<210> 127  
 <211> 77  
 <212> PRT  
 <213> Homo sapiens

<220>  
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 <222> (60)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (77)

<223> Xaa equals stop translation

<400> 127

Met Asn Gly Gln Arg Met Asp Glu Leu Phe Val Leu Ile Arg Asp Gly  
1 5 10 15

Phe Leu Leu Pro Thr Gly Leu Ser Ser Leu Ala Gln Leu Leu Leu Leu  
20 25 30

Glu Ile Ile Glu Phe Arg Ala Ala Gly Trp Lys Thr Thr Pro Ala Ala  
35 40 45

His Lys Tyr Tyr Tyr Ser Glu Ser Pro Thr Arg Xaa Pro Asp Gln Gly  
50 55 60

Phe Leu Thr Ser Thr Gly Leu Ser Ser Thr His Leu Xaa  
65 70 75

<210> 128

<211> 208

<212> PRT

<213> Homo sapiens

<220>

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<222> (153)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (154)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 128

Met Leu His Ser Gly Leu Val His Gly Leu Ala Phe Trp Phe Asp Val  
1 5 10 15

Ala Phe Ile Gly Ser Ile Met Thr Val Trp Leu Ser Thr Ala Pro Thr  
20 25 30

Glu Pro Leu Thr His Trp Tyr Gln Val Arg Cys Leu Phe Gln Ser Pro  
35 40 45

Leu Phe Ala Lys Ala Gly Asp Thr Leu Ser Gly Thr Cys Leu Leu Ile  
50 55 60

Ala Asn Lys Arg Gln Ser Tyr Asp Ile Ser Ile Val Ala Gln Val Asp  
65 70 75 80

Gln Thr Gly Ser Lys Ser Ser Asn Leu Leu Asp Leu Lys Asn Pro Phe  
85 90 95

Phe Arg Tyr Thr Gly Thr Thr Pro Ser Pro Pro Pro Gly Ser His Tyr  
100 105 110

Thr Ser Pro Ser Glu Asn Met Trp Asn Thr Gly Ser Thr Tyr Asn Leu  
115 120 125



Ser Ser Gly Met Ala Val Ala Gly Met Pro Thr Ala Tyr Asp Leu Ser  
130 135 140

Ser Val Ile Ala Ser Gly Ser Ser Xaa Xaa His Asn Asn Leu Ile Pro  
145 150 155 160

Leu Gly Ser Ser Gly Ala Gln Gly Ser Gly Gly Gly Ser Thr Ser Ala  
165 170 175

His Tyr Ala Val Asn Ser Gln Phe Thr Met Gly Gly Pro Ala Phe Ser  
180 185 190

Met Ala Ser Pro Met Ser Ile Pro Thr Asn Thr Met His Tyr Gly Ser  
195 200 205

<210> 129

<211> 37

<212> PRT

<213> Homo sapiens

<220>

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<222> (37)

<223> Xaa equals stop translation

<400> 129

Met Gly Lys Leu Leu Phe Pro Leu Leu Leu Ala Pro Phe Ser Pro Ile  
1 5 10 15

Asn Lys Tyr Ile Leu His Phe Ala Arg Asp Gly Val Glu Glu Val Leu  
20 25 30

Lys Phe Val Ser Xaa  
35

<210> 130

<211> 62

<212> PRT

<213> Homo sapiens

<220>

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<222> (62)

<223> Xaa equals stop translation

<400> 130

Met Leu Val Val Ala Val Ile Phe Leu His Gly Ala Gly Ala Met Asn  
1 5 10 15

Tyr Leu Ile Ala Lys Ile Leu Glu Val Gln Gly Leu Arg Glu Val Pro  
20 25 30

Cys Thr Tyr Asn Thr Arg Gly Ile Ala Pro Pro Gly Gly Asn Val Gly  
                   35                                  40                                  45

Phe Glu Ala Ala Ser Val Val Asp Arg Pro Cys Gly Gln Xaa  
           50                                  55                                  60

<210> 131

<211> 46

<212> PRT

<213> Homo sapiens

<220>

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<222> (41)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<222> (46)

<223> Xaa equals stop translation

<400> 131

Met Gly Phe Phe Glu Thr Ile Lys Leu Leu Leu Trp Val Val Leu Ile  
       1                                  5                                  10                                  15

Asp Cys Val Gly Val Gly Leu Leu Ile Ala Thr Leu Met Trp Phe Ile  
                   20                                  25                                  30

Ser Asn Lys Tyr Leu Val Lys Arg Xaa Glu Gln Arg Leu Xaa  
                   35                                  40                                  45

<210> 132

<211> 56

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (56)

<223> Xaa equals stop translation

<400> 132

Met Cys Ala Leu His Trp Leu His Trp Leu Ala Ser Trp Leu Cys Ser  
       1                                  5                                  10                                  15

Gln Pro Cys Leu Leu Leu Pro Ser Ser Pro Val Leu Cys Gln Ala Phe  
                   20                                  25                                  30

Ser Pro Ser Pro Val Ser Ser Pro Leu Arg Gln Ala Ile Ala Pro Ile  
                   35                                  40                                  45

Trp Leu Gly Arg His Arg Gln Xaa  
       50                                  55

<210> 133

<211> 63  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (63)  
 <223> Xaa equals stop translation

<400> 133  
 Met Arg Glu Asp Pro Thr Trp Gly Arg Ser Leu Lys Ser Ser Leu Lys  
           1                  5                  10                  15

Ile Leu Ser Asp Leu Ser Tyr Ser Leu Val Leu Trp Leu Thr Ala Ile  
                   20                  25                  30

Leu Gly Leu Thr Ala Gln Lys Ser Gln Glu Lys Ser Gly Arg Ala Arg  
           35                  40                  45

Ile Gln Ser Ile Cys Ser Tyr Asn Val Ala Thr Ser Phe Ala Xaa  
           50                  55                  60

<210> 134  
 <211> 35  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (35)  
 <223> Xaa equals stop translation

<400> 134  
 Met Leu Ser Leu Met Ser His Leu His Val Gln Gln His Leu Ser Ser  
           1                  5                  10                  15

Ile Leu Leu Ile Leu Ile Val Phe Ala Phe Leu Ser Asn Pro Phe Leu  
                   20                  25                  30

Asn Gln Xaa  
           35

<210> 135  
 <211> 33  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (33)  
 <223> Xaa equals stop translation

<400> 135  
 Met Thr Arg Trp Leu Val Gln His His Thr Ser Leu Val Gln Val Leu  
           1                  5                  10                  15

Ala Val Ser Phe Pro Ala Glu Gly Pro Gly Thr Glu Phe Pro Thr Ser  
 20 25 30

Xaa

<210> 136

<211> 118

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (118)

<223> Xaa equals stop translation

<400> 136

Met Gly Val Leu Cys Arg Ser Leu Ala Gly Leu Gly Gly Leu Ser Leu  
 1 5 10 15

Leu Gly Val Phe Cys Gly Gly Tyr Leu Met Ala Leu Ala Val Leu Ser  
 20 25 30

Pro Cys Pro Pro Leu Val Gly Thr Ser Ala Gly Val Val Leu Val Val  
 35 40 45

Leu Ser Trp Val Leu Cys Leu Gly Val Phe Ser Tyr Val Lys Val Ala  
 50 55 60

Ala Ser Ser Leu Leu His Gly Gly Gly Arg Pro Ala Leu Leu Ala Ala  
 65 70 75 80

Gly Val Ala Ile Gln Val Gly Ser Leu Leu Gly Ala Val Ala Met Phe  
 85 90 95

Pro Pro Thr Ser Ile Tyr His Val Phe His Ser Arg Lys Asp Cys Ala  
 100 105 110

Asp Pro Cys Asp Ser Xaa  
 115

<210> 137

<211> 146

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (146)

<223> Xaa equals stop translation

<400> 137

Met Leu Thr Arg Leu Val Leu Ser Ala His Leu Ser Ser Thr Thr Ser  
 1 5 10 15

Pro Pro Trp Thr His Ala Ala Ile Ser Trp Glu Leu Asp Asn Val Leu

|                                                                 |     |     |
|-----------------------------------------------------------------|-----|-----|
| 20                                                              | 25  | 30  |
| Met Pro Ser Pro Arg Ile Trp Pro Gln Val Thr Pro Thr Gly Arg Ser |     |     |
| 35                                                              | 40  | 45  |
| Ala Ser Val Arg Ser Glu Gly Asn Thr Ser Ser Leu Trp Asn Phe Ser |     |     |
| 50                                                              | 55  | 60  |
| Ala Gly Gln Asp Val His Ala Ile Val Thr Arg Thr Cys Glu Ser Val |     |     |
| 65                                                              | 70  | 75  |
| Leu Ser Ser Ala Val Tyr Thr His Gly Cys Gly Cys Val Arg Ser Ala |     |     |
| 85                                                              | 90  | 95  |
| Thr Asn Ile Thr Cys Gln Ser Ser Gly Gln Gln Arg Gln Ala Ala Arg |     |     |
| 100                                                             | 105 | 110 |
| Gln Glu Glu Glu Asn Ser Ile Cys Lys Ala His Asp Ser Arg Glu Gly |     |     |
| 115                                                             | 120 | 125 |
| Arg Leu Gly Tyr Pro Leu Ser Ala His Gln Pro Gly Ser Gly Gly Pro |     |     |
| 130                                                             | 135 | 140 |

Asn Xaa  
145

<210> 138  
<211> 45  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (45)  
<223> Xaa equals stop translation

<400> 138  
Met Asn Arg Ile Leu Ser Tyr Leu Glu Thr Gly Phe Phe Ser Leu Pro  
1 5 10 15

Leu Tyr Phe Phe Leu Thr Tyr Glu Leu His Val Pro Leu Met Lys Thr  
20 25 30

Met Asn Trp Thr Cys Thr Thr Val His Val Ile Asp Xaa  
35 40 45

<210> 139  
<211> 134  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (114)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (134)

<223> Xaa equals stop translation

<400> 139

Met Ala Leu Met Glu Val Asn Leu Leu Ser Gly Phe Met Val Pro Ser  
1 5 10 15

Glu Ala Ile Ser Leu Ser Glu Thr Val Lys Lys Val Glu Tyr Asp His  
20 25 30

Gly Lys Leu Asn Leu Tyr Leu Asp Ser Val Asn Glu Thr Gln Phe Cys  
35 40 45

Val Asn Ile Pro Ala Val Arg Asn Phe Lys Val Ser Asn Thr Gln Asp  
50 55 60

Ala Ser Val Ser Ile Val Asp Tyr Tyr Glu Pro Arg Arg Gln Ala Val  
65 70 75 80

Arg Ser Tyr Asn Ser Glu Val Lys Leu Ser Ser Cys Asp Leu Cys Ser  
85 90 95

Asp Val Gln Gly Cys Arg Pro Cys Glu Asp Gly Ala Ser Gly Ser His  
100 105 110

His Xaa Ser Ser Val Ile Phe Ile Phe Cys Phe Lys Leu Leu Tyr Phe  
115 120 125

Met Glu Leu Trp Leu Xaa  
130

<210> 140

<211> 26

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (26)

<223> Xaa equals stop translation

<400> 140

Met Gln Lys Arg Glu Arg Lys Leu Tyr Val Ile Phe Leu Tyr Leu Ala  
1 5 10 15

Phe Ile Leu Leu His Trp Gln Ser Gly Xaa  
20 25

<210> 141

<211> 30

<212> PRT

<213> Homo sapiens

<400> 141

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Met Phe Ala Phe Val Ile Leu Val Phe Ile Thr Ser Met Trp Ala Gln  
 1 5 10 15

Thr Ile Ser Leu His Val Ser Ser Ser Glu Glu Val Ser Cys  
 20 25 30

<210> 142

<211> 93

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (93)

<223> Xaa equals stop translation

<400> 142

Met Leu Arg Cys Ala Trp Ala Leu Ala Pro Pro Val Pro Pro Leu  
 1 5 10 15

Val Thr Asp Leu Pro Phe Phe Phe Thr Leu Ser Pro Phe Leu Phe Ala  
 20 25 30

Leu Glu Pro Pro Leu Pro Asp Leu Thr Asp Ser Ala Ser Met Ser Val  
 35 40 45

Ile Val Asp Arg Arg Ser Arg Gly Ser Asp Thr Asn Cys Trp Leu Leu  
 50 55 60

Asn Arg Arg Ser Lys His Pro Gly Ala Pro Arg Met Cys Thr Cys Lys  
 65 70 75 80

Ala Asn Ser Asn Lys Tyr Thr Ser Ser Leu Thr Asp Xaa  
 85 90

<210> 143

<211> 40

<212> PRT

<213> Homo sapiens

<400> 143

Met Arg Ala Asn Phe Arg Cys Trp Leu His Cys Thr Leu Tyr Leu Leu  
 1 5 10 15

Cys Ser Pro Pro Ser Asn Gln Gly Ser Cys Gln Cys Thr Pro His Val  
 20 25 30

Pro Trp Arg Ser Trp Cys Cys Glu  
 35 40

<210> 144

<211> 82

<212> PRT

<213> Homo sapiens

&lt;400&gt; 144

Met Ser Ala His Cys Asn Leu His Leu Pro Gly Ser Ser Asn Ser Pro  
 1 5 10 15

Thr Ser Ala Ser Gln Val Ala Gly Ile Thr Arg Glu Glu Ala Glu Gly  
 20 25 30

Gln Gly Gly Lys Gly Ile Gly Ser Gln Val His Gly Pro Leu Val Lys  
 35 40 45

Pro Pro Leu Leu Trp Gly Leu Arg Lys His Arg Gly Gly Val Ser Cys  
 50 55 60

Ser Ala Cys Pro His Ser Pro Ala Asn Asn Val Val Thr Ser Val Pro  
 65 70 75 80

Asn Leu

&lt;210&gt; 145

&lt;211&gt; 76

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (76)

&lt;223&gt; Xaa equals stop translation

&lt;400&gt; 145

Met Asn Met Cys Trp Gln Ile Pro Asn Phe Ile Leu Ile Gln Val Ser  
 1 5 10 15

Ser Glu Tyr Val His Ile Leu Ile Val Ile Val Thr Lys Thr Pro Gly  
 20 25 30

Val Gln Ser Gly Ser Cys Cys Ser Leu His Arg Lys Pro Met Pro Glu  
 35 40 45

Thr Thr Ser Val Ala Lys Glu Glu Gly Leu Ile Gly Cys Cys Ser Arg  
 50 55 60

Gly Asp Gly Ser Ser Val Ser Asn Pro Ser Leu Xaa  
 65 70 75

&lt;210&gt; 146

&lt;211&gt; 92

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (86)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 146



Met Arg Met Pro Ser His Thr His Ala Arg Phe Val Leu Phe Tyr Leu  
 1 5 10 15  
 Ile Leu Arg Asn Arg Ser Gly Gly Val Leu Pro Gly Cys Ser Asp Pro  
 20 25 30  
 Glu Gly Ser Gln Glu Ser Pro Gly Leu Gln Lys Ser Pro Pro Thr Gly  
 35 40 45  
 Ser Glu Ala Ser Leu Ser Trp Cys Ile Gln Thr Ala His Ser Arg Leu  
 50 55 60  
 Trp Ala Leu Thr Leu Gln Ile Pro Glu Ser Pro Pro Gly Leu Pro Ala  
 65 70 75 80  
 Leu Gly Pro Val Pro Xaa Ser Ser Lys Gly Gly Arg  
 85 90

&lt;210&gt; 147

&lt;211&gt; 23

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (18)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (23)

&lt;223&gt; Xaa equals stop translation

&lt;400&gt; 147

Met Leu Pro Lys Pro Gln Leu Ser Val Leu Thr Leu Thr Val Ala Leu  
 1 5 10 15

Ser Xaa Ile Pro Gly Thr Xaa  
 20

&lt;210&gt; 148

&lt;211&gt; 40

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (40)

&lt;223&gt; Xaa equals stop translation

&lt;400&gt; 148

Met Glu Met Met Met Val Val Met Gly Cys Val Gln Gly Pro Gly Glu  
 1 5 10 15

Gly Cys Ser Gly Lys Met Gly Lys Lys Pro Arg Pro Trp Pro Leu Val  
 20 25 30

Ser Tyr Ser Ile Thr His Leu Xaa  
           35                    40

<210> 149  
 <211> 35  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (35)  
 <223> Xaa equals stop translation

<400> 149  
 Met Leu Leu Tyr Gln Ile Asn Ile Pro Phe Ser Phe Ala Leu Ser Val  
       1                    5                    10                    15

Leu Leu Ser Leu Cys Trp Pro His Gln His Tyr Tyr Pro Cys Tyr Ile  
                     20                    25                    30

Ser Phe Xaa  
           35

<210> 150  
 <211> 34  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (34)  
 <223> Xaa equals stop translation

<400> 150  
 Met Cys Val Cys Val Phe Ser Phe Cys Leu Phe Cys Leu Phe Val Phe  
       1                    5                    10                    15

Gly Met Val Leu Thr Val Leu Leu Cys His Pro Gly Trp Ser Ala Val  
                     20                    25                    30

Val Xaa

<210> 151  
 <211> 51  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (51)  
 <223> Xaa equals stop translation

<400> 151

Met Leu Ile Phe Cys Gly Glu Tyr Trp Tyr Phe Cys Phe Asn Leu Leu  
 1 5 10 15  
 Trp Val Val Val Pro Tyr Lys Phe Ser Phe Leu Ser Phe Gly Ser Val  
 20 25 30  
 Ile Gln Ile Cys Pro Thr Ser Val Pro Pro Ile Gly Gln Ser Gly Ile  
 35 40 45  
 Trp Val Xaa  
 50

<210> 152  
 <211> 83  
 <212> PRT  
 <213> Homo sapiens

<400> 152  
 Met Arg Phe Leu Lys Leu Phe Ser His Asn Ile Leu Ile Gln Leu Lys  
 1 5 10 15  
 Ile Ile Leu Lys Leu Lys Val Ser Ser Val Leu Pro Ser Val Lys Ser  
 20 25 30  
 Leu Lys Asp Glu Arg Ile Ile Phe Ile Phe Gln Val Ser Leu Asn Lys  
 35 40 45  
 Val Leu Ser Pro Cys Leu Arg Phe Tyr Pro Gln Arg Thr Ala Thr Phe  
 50 55 60  
 Leu Ser Cys Gln Ile Glu Phe Val Gln Gln Leu Arg Asn Thr Gly Lys  
 65 70 75 80  
 Ile Gln Asn

<210> 153  
 <211> 47  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (47)  
 <223> Xaa equals stop translation

<400> 153  
 Met Lys Glu Lys Gln Val Tyr His Ile Ser Lys Ile Lys Glu Glu Tyr  
 1 5 10 15  
 Ser Ile Leu Ile Cys Leu Leu Ile Val Lys Met Ser Phe Pro Gln Ile  
 20 25 30  
 Ala Pro Ile Gln Phe Lys Arg Lys His Ser Thr Lys Ile Gln Xaa  
 35 40 45

<210> 154  
 <211> 49  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (49)  
 <223> Xaa equals stop translation

<400> 154  
 Met Trp Asp Gln Arg Pro Thr Lys Gly Thr Gln Asp Phe Gln Leu Leu  
           1                  5                  10                  15  
 Leu Leu Pro Gly Ile Cys Ser Ser Phe Ala Leu Leu Leu Asn Ala Leu  
                   20                  25                  30  
 Pro Phe Pro Ala Pro Ser Pro Ser Ile Gly Thr Cys Leu Cys Ala Ser  
           35                  40                  45

Xaa

<210> 155  
 <211> 77  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (73)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (77)  
 <223> Xaa equals stop translation

<400> 155  
 Met Gln Trp Val His Ile Ala Glu Thr Gly Asn Glu Lys Phe Ser Phe  
           1                  5                  10                  15  
 Phe Leu Phe Phe Phe Cys Gly Gly Trp Gly Gln Ser Leu Thr Leu Ser  
                   20                  25                  30  
 Pro Arg Gln Glu Cys Ser Gly Ala Ile Ser Ala His Cys Asn Leu Pro  
           35                  40                  45  
 Pro Pro His Leu Gln Val Gln Ala Ile Leu Val Pro Pro Pro Pro Glu  
           50                  55                  60  
 Gln Leu Ala Leu Gln Val His Ala Xaa Thr Leu Gly Xaa  
           65                  70                  75

<210> 156

<211> 35  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (35)  
 <223> Xaa equals stop translation

<400> 156  
 Met Phe Tyr Asp Val Gln Gly Pro Ser His Ser Ser Glu Met Cys Phe  
           1                  5                  10                  15  
 Phe Val Phe Phe Phe Val Cys Leu Phe Leu Phe Leu Met Asn Glu Ser  
                   20                  25                  30  
 Lys Gly Xaa  
                   35

<210> 157  
 <211> 65  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (65)  
 <223> Xaa equals stop translation

<400> 157  
 Met Val Leu Leu Leu Trp Arg Leu Phe Phe Pro Val Gly Leu Met Arg  
           1                  5                  10                  15  
 Ile Ala Gln Pro Leu Gly His Leu Ile Lys His Arg Glu Thr Tyr Ser  
                   20                  25                  30  
 Leu Arg His Trp Cys Leu His Thr Gln Val Met Leu Gly His Gly Asp  
                   35                  40                  45  
 Glu Thr Ala Pro Leu Leu Ile Phe Leu Lys Lys Pro Ser Cys His Ile  
           50                  55                  60  
 Xaa  
           65

<210> 158  
 <211> 85  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (85)  
 <223> Xaa equals stop translation

<400> 158

Met Ser Ile Gln Val Leu Cys Pro Leu Phe Cys Phe Ala Ser Phe Phe  
 1 5 10 15  
 Ile Leu Gly Ser Arg Gly Glu Cys Ala Gly Phe Tyr Thr His Val Leu  
 20 25 30  
 Gln Asp Pro Arg Ala Trp Ala Ser Asn Asp Pro Ala Thr Gln Val Val  
 35 40 45  
 Asn Ile Val Pro Asn Arg Glu Phe Ser Thr Leu Ala Leu Leu Leu Pro  
 50 55 60  
 Pro His Phe Trp Asn Pro Trp Cys Pro Leu Phe Pro Cys Cys Ala Met  
 65 70 75 80  
 Cys Pro Gln Cys Xaa  
 85

&lt;210&gt; 159

&lt;211&gt; 93

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 159

Met Arg Ser Leu Ser Phe Leu Phe Thr Trp Glu Asn Leu Tyr Phe Ser  
 1 5 10 15  
 Phe Thr Phe Glu Val Tyr Phe Tyr Trp Met Tyr Tyr Ser Arg Met Lys  
 20 25 30  
 Val Phe Ser Phe Asn Thr Leu Asn Met Leu Cys His Phe Leu Leu Ala  
 35 40 45  
 Cys Lys Val Ser Leu Arg Ser Leu Leu Gln Asp Val Trp Glu Leu Ile  
 50 55 60  
 Cys Met Leu Phe Val Ser Phe Leu Leu Leu Pro Ser Phe Lys Ile Leu  
 65 70 75 80  
 Ser Leu Ser Leu Thr Phe Gly Ser Leu Ile Ile Lys Cys  
 85 90

&lt;210&gt; 160

&lt;211&gt; 42

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 160

Met Ala Gly Arg Gly Arg Gly Arg Val Ala Ser Ser Trp Val Gly Gly  
 1 5 10 15  
 Thr Gly Pro Thr Cys Cys Gly Cys Lys Trp Pro Gly Gln Leu Thr Glu  
 20 25 30  
 His Leu Leu Phe Ala Asp Pro Thr Leu Arg  
 35 40

<210> 161  
 <211> 32  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (32)  
 <223> Xaa equals stop translation

<400> 161  
 Met Ser Arg Ala Asn Lys Glu Ile Met Leu Leu Pro Ala Asp Val  
           1                  5                  10                  15  
 Pro Leu Val Tyr Ser Val Val Ser Val Gly Arg Val Thr Leu Arg Xaa  
                   20                  25                  30

<210> 162  
 <211> 47  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (47)  
 <223> Xaa equals stop translation

<400> 162  
 Met Trp Asn Phe Ser Cys Ser Thr Ser Ile Cys Glu Tyr Gly Phe Leu  
           1                  5                  10                  15  
 Lys Phe Leu Val Leu Tyr Leu Leu Ser Thr Ser Met Ser Ser Pro Leu  
                   20                  25                  30  
 Ile Gly Pro Glu Pro His Ser Pro Thr Lys Cys Lys Ile Lys Xaa  
           35                  40                  45

<210> 163  
 <211> 159  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (159)  
 <223> Xaa equals stop translation

<400> 163  
 Met Val Phe Val Val Leu Leu Pro Glu Met Ile Pro Leu Thr Ala Glu  
           1                  5                  10                  15

Glu Gly Gly Gly Trp Lys Lys Ser Arg Ser Asp Pro Lys Thr Leu Pro  
20 25 30

Val Gln Ala Phe Val Phe Lys Cys Gln Ala Trp Gly Pro Arg Arg Arg  
35 40 45

Arg Glu Gly Leu Pro Trp Asp Ser Ser Lys Leu Ser Pro Leu Ser Ser  
50 55 60

Thr Arg Leu Thr Thr Cys Ser Pro Pro Pro Thr Ser Gly Arg Gly Leu  
65 70 75 80

Gln Gly Thr Gln Glu Ala Ala Pro Trp Thr Pro Gly Pro Ser Pro Thr  
85 90 95

Lys Pro Ser Val Pro Lys Ala Pro Asp Pro Glu Leu Ala Arg Thr Met  
100 105 110

Gln Ala Gly Leu Leu Trp Val Leu Ala Glu Pro Ala Thr Asn Gly Gly  
115 120 125

Arg Glu Gly Arg Arg Ser Leu Thr Phe Ser Gln Asn Lys Pro Arg Arg  
130 135 140

Asn Pro Arg Lys Ala Glu Val Leu Phe Phe Ala Asn Pro Val Xaa  
145 150 155

<210> 164

<211> 90

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (90)

<223> Xaa equals stop translation

<400> 164

Met Val Val Pro Ala Asp Ser Gly Gly Leu Pro Arg Arg Thr Glu Lys  
1 5 10 15

Leu Leu Cys Val Met Leu Leu Leu Leu Glu Arg Met Ala Leu Cys Pro  
20 25 30

Val Leu Asp Val His Thr His Leu Gly Cys Ile Ile Cys Val Ala Cys  
35 40 45

Gln Pro Val Arg Thr Val Leu Ser Leu Leu Thr Ala Ser Ile Gln Glu  
50 55 60

Gly Ser Arg Leu Ser Gly His Phe Gln Thr Leu Pro His Gln Thr Asp  
65 70 75 80

Thr Thr Phe His Lys Gly Ser Lys Leu Xaa  
85 90



<213> Homo sapiens

<223> Xaa equals any of the naturally occurring L-amino acids

Cys Val Cys Met Cys Val Cys Val Cys Val Cys Arg Gly Ile Leu Val  
50 55 60

<213> Homo sapiens

<223> Xaa equals stop translation

Trp Arg Leu Met Ser Val Ser Pro Gln Trp Asn Val Gly Leu Met Ala  
100 105 110

Gln Ala His Arg Gly His Cys Cys Val Gln Gly Ser Val Arg Met Pro  
115 120 125

Arg Cys Ala Trp Met Trp Arg Trp Pro Ala Gly Trp Gly Cys His Leu  
130 135 140

Ala Xaa  
145

<210> 167  
<211> 69  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (69)  
<223> Xaa equals stop translation

<400> 167  
Met Gly Thr Glu Gln Ser Leu Gly Tyr Arg Val Gln Gly Leu Leu Leu  
1 5 10 15

Val Leu Ser Leu His Val Ser Gln Arg Gly Leu Cys Gly Ser Leu Pro  
20 25 30

Pro Ser Met Ser Ser Glu Glu Arg Lys Gln Arg Pro Trp Ser Ser Gln  
35 40 45

Tyr Gly Glu His Cys Val Pro Asp Thr Pro Leu Arg Val Lys Val Arg  
50 55 60

Arg His Ile Leu Xaa  
65

<210> 168  
<211> 89  
<212> PRT  
<213> Homo sapiens

<400> 168  
Met Arg Glu Thr Thr Pro Met Ile Gln Leu Pro Pro Ser Gly Ser Pro  
1 5 10 15

Phe Ile Cys Gly Asp Tyr Glu Tyr Tyr His Leu Arg Glu Ile Leu Asn  
20 25 30

Gly Ser Thr Asp Pro Asn His Ser Thr Ala Leu Arg Tyr Leu Ile Ile  
35 40 45

Lys Leu Pro Lys Val Lys Gly Lys Glu Arg Ile Leu Lys Ile Ala Arg  
50 55 60

Glu Lys Lys Gln Ile Thr Cys Asn Gly Ala Pro Ile Cys Leu Ala Ala  
65 70 75 80

Asp Val Ser Val Glu Thr Leu Leu Val  
85

<210> 169  
<211> 88  
<212> PRT  
<213> Homo sapiens

<400> 169  
Met His Phe Trp Thr Gly Pro Arg Phe Gln Leu Gly Leu Ala Gly Val  
1 5 10 15  
Pro Ala Ala Gln Phe Glu Thr Ser His Ile Glu Ser Arg Ala Arg Ser  
20 25 30  
Arg Ala Cys Gly Lys Phe Leu Gly Phe Cys Ser Ser Arg Thr Val Pro  
35 40 45  
Ser Ala Trp Cys Glu Ala Leu Met Glu Pro Ala Val Ile Gly Tyr Glu  
50 55 60  
Thr Lys Ser Leu Pro Ile His Gly Cys Pro Phe Ile His Trp His Arg  
65 70 75 80  
Thr Pro Gly Thr Asn Glu Gly Asp  
85

<210> 170  
<211> 37  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (37)  
<223> Xaa equals stop translation

<400> 170  
Met Leu Asp Pro Ala Ala Ser Gly Thr Phe Arg Ala Leu Leu Leu Leu  
1 5 10 15  
Ser His Pro Phe Leu Asp Trp Ser Leu Ser Asp Pro His Cys Glu Ser  
20 25 30  
Leu Asn Gln Lys Xaa  
35

<210> 171  
<211> 34  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE

<222> (34)

<223> Xaa equals stop translation

<400> 171

Met Ser His Asn Ile Gln Pro Leu Phe Ser Phe Leu Thr Leu Leu Ser  
1 5 10 15

Tyr Phe Leu Phe His Phe Leu Ser Leu Pro Ser Ser Phe Phe Pro Asn  
20 25 30

Tyr Xaa

<210> 172

<211> 36

<212> PRT

<213> Homo sapiens

<400> 172

Met Pro Ser Leu Pro Ile Arg Val Thr Lys Phe Ser Glu Ile Gly Asn  
1 5 10 15

Trp Gln Leu Lys Ala Val Ser Thr Thr Arg Phe Leu Leu Pro Leu Lys  
20 25 30

Lys Asn His Phe  
35

<210> 173

<211> 57

<212> PRT

<213> Homo sapiens

<400> 173

Met Leu Leu Lys Ser Thr Gly Ser Phe Leu Glu Phe Gly Leu Gln Glu  
1 5 10 15

Ser Cys Ala Glu Phe Trp Thr Ser Ala Asp Asp Ser Ser Ala Ser Asp  
20 25 30

Glu Ile Arg Leu Glu Leu Cys Phe Leu Ser Pro Ser Thr Ser Tyr Leu  
35 40 45

Val Val Ser Phe Leu Met Val Arg Ser  
50 55

<210> 174

<211> 45

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (45)

<223> Xaa equals stop translation

&lt;400&gt; 174

Met Tyr Val Lys Ala Ser Ala Val Thr Val Ser Arg Asp Glu Ala Leu  
 1 5 10 15

Thr Pro Cys Leu Pro Asp Pro His Trp Asn Ala Pro Phe Ala Arg His  
 20 25 30

Leu Leu Gln Pro Ser Cys Ser Phe Leu Glu Phe Pro Xaa  
 35 40 45

&lt;210&gt; 175

&lt;211&gt; 96

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (96)

&lt;223&gt; Xaa equals stop translation

&lt;400&gt; 175

Met Leu Ser Glu Thr Pro His Ala Arg Arg Gly Arg Ala Phe Leu Thr  
 1 5 10 15

Asp Ser Leu Pro Met Val Ile Pro Ser Leu Leu Leu Pro Pro Pro Gly  
 20 25 30

Arg Ala Ser Leu Ala Glu Pro Thr Leu Arg Ser Val Lys Gly Gln Pro  
 35 40 45

Leu Thr Leu Ser Gln His Met Glu Asp Leu Ala Val Ser Arg Glu Asn  
 50 55 60

Cys Ser His Tyr Arg Val Gln Leu Cys Pro Pro Ala Pro Ala Pro Ser  
 65 70 75 80

Ala Pro Arg Leu Thr Leu Met Ala Leu Ser Cys Ser Ser Leu Pro Xaa  
 85 90 95

&lt;210&gt; 176

&lt;211&gt; 83

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 176

Met Trp Asp Thr Phe Val Arg Asp Arg Asp Phe Ser Ala Tyr Leu Phe  
 1 5 10 15

Leu His Leu Leu Pro Pro Leu Ser Ala Cys Gly Leu Asn Cys Gln Pro  
 20 25 30

Leu His Leu Leu Pro His Cys Leu Gly Ser Ser Tyr Gln Ser Ser Arg

35

40

45

Leu Ala Ser Gly Met Pro Leu Leu Gly Ile His Pro Leu Thr Gly Gln  
 50 55 60

Asp Met Thr His Gly Cys Ile Leu Ile Ala Leu His Leu Phe Leu Leu  
 65 70 75 80

Ser Pro His

<210> 177

<211> 50

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (50)

<223> Xaa equals stop translation

<400> 177

Met Val Arg Ser Ser Ser His Phe Lys Phe Phe Leu Met Leu Phe Thr  
 1 5 10 15

Ser Thr Leu Gln Asp Val Gly His Thr Ser His Pro Ser Ala Gln Pro  
 20 25 30

Ser Ser Arg Leu Ser Asp Ser Pro Leu Ile Cys Leu Ile Asn Arg Gln  
 35 40 45

Val Xaa  
 50

<210> 178

<211> 61

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (61)

<223> Xaa equals stop translation

<400> 178

Met Thr Pro Gly Val Gly Ala Glu Pro Arg Gly Glu Gly Cys Lys Gly  
 1 5 10 15

Lys Ala Val Arg Gly Leu Gly Gly Glu Arg Val Ser Pro Val Leu Leu  
 20 25 30

Val Leu His Leu Arg Ser Pro Ser Pro Val Glu Gly Glu Gln Ser Gln  
 35 40 45

Arg Gln Trp Gly Val Gln Phe Trp Asn Leu Glu Glu Xaa  
 50 55 60

<210> 179

<211> 40

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (15)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (36)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (40)

<223> Xaa equals stop translation

<400> 179

Ile Leu Gly Phe Ser Phe Ala Val Gly Glu Gly Lys Trp Gly Xaa Phe  
1 5 10 15

Cys Leu Leu Val Pro Gly Ile Met Leu His Ile Ile His Leu Leu Ser  
20 25 30

His Leu Ile Xaa Pro Asn Pro Xaa  
35 40

<210> 180

<211> 53

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (53)

<223> Xaa equals stop translation

<400> 180

Met Pro Leu Asp Leu Leu Phe Leu Ile Thr Tyr Phe Leu Leu Ser Val  
1 5 10 15

Ile Leu Lys Val Leu Tyr Ile Asp Ala Pro Gly His Leu Gly Met Pro  
20 25 30

Ile Ser Leu Cys Ser Ser Ala Val Val Trp Val Lys Val Asp Leu Val  
35 40 45

Ser Glu Lys Gly Xaa  
50

<210> 181

<211> 41  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (41)  
 <223> Xaa equals stop translation

<400> 181  
 Met Ser Val Leu Ser Gly Phe Leu Phe Ile Val Val Val Cys Cys Tyr  
           1                  5                  10                  15  
 Cys Cys Phe Val Ala Arg Leu Gln Leu Thr Lys Tyr Glu Phe Lys Asn  
                   20                  25                  30  
 Cys Val Val Ile Phe Arg Asp Leu Xaa  
           35                  40

<210> 182  
 <211> 105  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (105)  
 <223> Xaa equals stop translation

<400> 182  
 Met Glu Arg Asp Thr Arg Glu Lys Cys Leu Trp Ser Leu Pro Tyr Pro  
           1                  5                  10                  15  
 Lys Leu Leu Cys Asn Leu Leu Ala Ser His Phe Leu Ser Ile Leu Ser  
                   20                  25                  30  
 Phe Phe Ile Tyr Ser Ile Gly Phe Leu Asp Leu Val Val Ser Asn Thr  
           35                  40                  45  
 Leu Pro Val Phe Gln Phe Asp Val Thr Phe Tyr Pro Val Thr Lys Phe  
           50                  55                  60  
 Ile Phe Gln Lys His Ser Met Leu Cys His Thr Ala Asn Leu Val Asn  
           65                  70                  75                  80  
 Val Pro Asp Met Val Trp Leu Cys Pro His Pro Asn Leu Ile Leu Asn  
                   85                  90                  95  
 Cys Ser Ser His Asn Pro His Met Xaa  
           100                  105

<210> 183  
 <211> 40  
 <212> PRT  
 <213> Homo sapiens



<220>  
 <221> SITE  
 <222> (40)  
 <223> Xaa equals stop translation

<400> 183  
 Met Asp Tyr Glu Val Ile Ser Gln Asn Val Arg Lys Arg Tyr Arg Ala  
           1                  5                  10                  15  
 Leu Glu Leu Leu Tyr Leu Leu Leu Asn Leu Asn Ile Thr Ala Thr Asn  
                   20                  25                  30  
 Lys Gly Tyr Gln Asp Lys Val Xaa  
                   35                  40

<210> 184  
 <211> 25  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (25)  
 <223> Xaa equals stop translation

<400> 184  
 Met Ile Tyr Phe Leu Leu Leu Leu Pro Glu Ala Gln Gly Glu Phe Ser  
           1                  5                  10                  15  
 Ser Ile Phe Thr Val Arg Thr Trp Xaa  
                   20                  25

<210> 185  
 <211> 54  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (54)  
 <223> Xaa equals stop translation

<400> 185  
 Met Cys Pro Pro Ser Gln Arg Ala Pro Thr His Leu Leu Cys Pro Trp  
           1                  5                  10                  15  
 Val Asp Pro Gly Pro Val Val Leu Gly Leu Ser Leu Trp Val Leu Ala  
                   20                  25                  30  
 Gly Gly Met Gly Glu Gly Gly Glu Gln Leu Pro Ala Pro Leu Leu Cys  
                   35                  40                  45  
 Gly Ser Ser Phe Phe Xaa  
                   50

<210> 186  
 <211> 66  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (50)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (66)  
 <223> Xaa equals stop translation

<400> 186  
 Met Leu Leu Asn Thr Ser Phe Thr Arg Glu Ile Ile Ile Ser Gln Arg  
           1                  5                  10                  15

Glu Ser Asn Trp Leu Val Leu Leu Leu Leu Phe Phe Pro Val Ile  
                   20                  25                  30

Cys Phe Ile Glu Arg Ser Leu Cys Gly Gly Thr Asp Phe Leu Asn Thr  
           35                  40                  45

Leu Xaa His Thr His Thr Tyr Thr Pro Ser Ile Tyr Gly Ala Met His  
           50                  55                  60

Arg Xaa  
       65

<210> 187  
 <211> 22  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (22)  
 <223> Xaa equals stop translation

<400> 187  
 Met Leu Leu Phe Leu Ile Leu Phe Phe Tyr Glu Lys Asn Gln Cys Gln  
           1                  5                  10                  15

Ser Ala Asp Pro Leu Xaa  
           20

<210> 188  
 <211> 19  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (19)

<223> Xaa equals stop translation

<400> 188

Ile Pro Asn Glu Met Ala Gly Ser Ile Trp Pro Leu Gly Tyr Leu Ala  
1 5 10 15

Thr Leu Xaa

<210> 189

<211> 24

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (24)

<223> Xaa equals stop translation

<400> 189

Met Phe Pro Phe Pro Phe Phe His Leu Val Ile Leu Gly Phe Leu Leu  
1 5 10 15

Leu His Ser Phe Leu Pro Pro Xaa  
20

<210> 190

<211> 42

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (42)

<223> Xaa equals stop translation

<400> 190

Met Ser Gln Thr Leu Val Ala Leu Pro Glu Arg Asn Glu Asn Ala Gln  
1 5 10 15

Pro His Pro Cys Thr Leu Cys Ser Phe Leu Phe Asn Thr Glu Glu Pro  
20 25 30

Glu Trp Arg Gly Pro Ala Gly Leu Gln Xaa  
35 40

<210> 191

<211> 3

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals stop translation

<400> 191  
Met Ser Xaa  
1

<210> 192  
<211> 49  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (42)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (49)  
<223> Xaa equals stop translation

<400> 192  
Met Trp Asp Thr Phe Val Arg Asp Arg Asp Phe Ser Ala Tyr Leu Phe  
1 5 10 15  
Leu His Leu Leu Pro Pro Leu Ser Ala Cys Gly Leu Asn Ala Ser Leu  
20 25 30  
Tyr Thr Ala Thr Pro Ile Val Trp Val Xaa His Thr Ser Pro Gln Asp  
35 40 45  
Xaa

<210> 193  
<211> 41  
<212> PRT  
<213> Homo sapiens

<400> 193  
Thr Pro Cys Thr Val Thr Ser Pro Leu Leu Pro Leu Pro Thr Val Ile  
1 5 10 15  
Gly Thr Ser Thr Arg Ala Val Pro Ser Gln Trp Lys Gly Lys Gly Trp  
20 25 30  
Gly Leu Gly Glu Gly Trp Gly Asp Pro  
35 40

<210> 194  
<211> 38  
<212> PRT  
<213> Homo sapiens

<400> 194  
Ala Arg Thr Gln Arg Val Arg Gln Cys His Leu Ala Thr Trp Gly Lys

1                    5                    10                    15  
 Ala Ser Ala Ser Asn Asn Ser Leu Ser Cys Ser Leu Ile Trp Asp Phe  
                   20                    25                    30

Lys Thr Gln Met Lys Thr  
                   35

<210> 195  
 <211> 37  
 <212> PRT  
 <213> Homo sapiens

<400> 195  
 His Thr His Pro Pro Pro Ser Ala Cys Leu His His Leu Lys Ser Lys  
                   1                    5                    10                    15

Phe His Leu Lys Ile Ser Phe Leu Phe Phe Phe Phe Leu Phe Leu Phe  
                   20                    25                    30

Val Tyr Thr Asn Ile  
                   35

<210> 196  
 <211> 223  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (75)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (146)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (159)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 196  
 Met Val Pro Arg Thr Ser His Thr Ala Ala Phe Leu Ser Asp Thr Lys  
                   1                    5                    10                    15

Asp Arg Gly Pro Pro Val Gln Ser Gln Ile Trp Arg Ser Gly Glu Lys  
                   20                    25                    30

Val Pro Phe Val Gln Thr Tyr Ser Leu Arg Ala Phe Glu Lys Pro Pro  
                   35                    40                    45

Gln Val Gln Thr Gln Ala Leu Arg Asp Phe Glu Lys His Leu Asn Asp  
                   50                    55                    60

Leu Lys Lys Glu Asn Phe Ser Leu Lys Leu Xaa Ile Tyr Phe Leu Glu  
65 70 75 80

Glu Arg Met Gln Gln Lys Tyr Glu Ala Ser Arg Glu Asp Ile Tyr Lys  
85 90 95

Arg Asn Thr Glu Leu Lys Val Glu Val Glu Ser Leu Lys Arg Glu Leu  
100 105 110

Gln Asp Lys Lys Gln His Leu Asp Lys Thr Trp Ala Asp Val Glu Asn  
115 120 125

Leu Asn Ser Gln Asn Glu Ala Glu Leu Arg Arg Gln Phe Glu Glu Arg  
130 135 140

His Xaa Glu Thr Glu His Val Tyr Glu Leu Leu Glu Asn Lys Xaa Gln  
145 150 155 160

Leu Leu Gln Glu Glu Ser Arg Leu Ala Lys Asn Glu Ala Ala Arg Met  
165 170 175

Ala Ala Leu Val Glu Ala Glu Lys Glu Cys Asn Leu Glu Leu Ser Glu  
180 185 190

Lys Leu Lys Gly Val Thr Lys Asn Trp Glu Asp Val Pro Gly Asp Gln  
195 200 205

Val Lys Pro Asp Gln Tyr Thr Glu Ala Leu Ala Gln Arg Asp Lys  
210 215 220

<210> 197

<211> 239

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (91)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (162)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (175)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 197

Met Glu Gln Thr Trp Thr Arg Asp Tyr Phe Ala Glu Asp Asp Gly Glu  
1 5 10 15

Met Val Pro Arg Thr Ser His Thr Ala Ala Phe Leu Ser Asp Thr Lys  
20 25 30

Asp Arg Gly Pro Pro Val Gln Ser Gln Ile Trp Arg Ser Gly Glu Lys  
35 40 45

Val Pro Phe Val Gln Thr Tyr Ser Leu Arg Ala Phe Glu Lys Pro Pro  
50 55 60

Gln Val Gln Thr Gln Ala Leu Arg Asp Phe Glu Lys His Leu Asn Asp  
65 70 75 80

Leu Lys Lys Glu Asn Phe Ser Leu Lys Leu Xaa Ile Tyr Phe Leu Glu  
85 90 95

Glu Arg Met Gln Gln Lys Tyr Glu Ala Ser Arg Glu Asp Ile Tyr Lys  
100 105 110

Arg Asn Thr Glu Leu Lys Val Glu Val Glu Ser Leu Lys Arg Glu Leu  
115 120 125

Gln Asp Lys Lys Gln His Leu Asp Lys Thr Trp Ala Asp Val Glu Asn  
130 135 140

Leu Asn Ser Gln Asn Glu Ala Glu Leu Arg Arg Gln Phe Glu Glu Arg  
145 150 155 160

His Xaa Glu Thr Glu His Val Tyr Glu Leu Leu Glu Asn Lys Xaa Gln  
165 170 175

Leu Leu Gln Glu Glu Ser Arg Leu Ala Lys Asn Glu Ala Ala Arg Met  
180 185 190

Ala Ala Leu Val Glu Ala Glu Lys Glu Cys Asn Leu Glu Leu Ser Glu  
195 200 205

Lys Leu Lys Gly Val Thr Lys Asn Trp Glu Asp Val Pro Gly Asp Gln  
210 215 220

Val Lys Pro Asp Gln Tyr Thr Glu Ala Leu Ala Gln Arg Asp Lys  
225 230 235

<210> 198

<211> 29

<212> PRT

<213> Homo sapiens

<400> 198

Tyr Phe Ala Glu Asp Asp Gly Glu Met Val Pro Arg Thr Ser His Thr  
1 5 10 15

Ala Ala Phe Leu Ser Asp Thr Lys Asp Arg Gly Pro Pro  
20 25

<210> 199

<211> 27

<212> PRT

<213> Homo sapiens

&lt;400&gt; 199

Gly Pro Pro Val Gln Ser Gln Ile Trp Arg Ser Gly Glu Lys Val Pro  
 1 5 10 15

Phe Val Gln Thr Tyr Ser Leu Arg Ala Phe Glu  
 20 25

&lt;210&gt; 200

&lt;211&gt; 24

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (13)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 200

Asn Asp Leu Lys Lys Glu Asn Phe Ser Leu Lys Leu Xaa Ile Tyr Phe  
 1 5 10 15

Leu Glu Glu Arg Met Gln Gln Lys  
 20

&lt;210&gt; 201

&lt;211&gt; 22

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 201

Leu Lys Val Glu Val Glu Ser Leu Lys Arg Glu Leu Gln Asp Lys Lys  
 1 5 10 15

Gln His Leu Asp Lys Thr  
 20

&lt;210&gt; 202

&lt;211&gt; 21

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (11)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 202

Glu Leu Arg Arg Gln Phe Glu Glu Arg His Xaa Glu Thr Glu His Val  
 1 5 10 15

Tyr Glu Leu Leu Glu  
 20

&lt;210&gt; 203



<211> 25  
 <212> PRT  
 <213> Homo sapiens

<400> 203  
 Gln Glu Glu Ser Arg Leu Ala Lys Asn Glu Ala Ala Arg Met Ala Ala  
     1                    5                    10                    15  
 Leu Val Glu Ala Glu Lys Glu Cys Asn  
                     20                    25

<210> 204  
 <211> 25  
 <212> PRT  
 <213> Homo sapiens

<400> 204  
 His Thr Ala Ala Phe Leu Ser Asp Thr Lys Asp Arg Gly Pro Pro Val  
     1                    5                    10                    15  
 Gln Ser Gln Ile Trp Arg Ser Gly Glu  
                     20                    25

<210> 205  
 <211> 27  
 <212> PRT  
 <213> Homo sapiens

<400> 205  
 Gln Thr Tyr Ser Leu Arg Ala Phe Glu Lys Pro Pro Gln Val Gln Thr  
     1                    5                    10                    15  
 Gln Ala Leu Arg Asp Phe Glu Lys His Leu Asn  
                     20                    25

<210> 206  
 <211> 24  
 <212> PRT  
 <213> Homo sapiens

<400> 206  
 Glu Arg Met Gln Gln Lys Tyr Glu Ala Ser Arg Glu Asp Ile Tyr Lys  
     1                    5                    10                    15  
 Arg Asn Thr Glu Leu Lys Val Glu  
                     20

<210> 207  
 <211> 25  
 <212> PRT  
 <213> Homo sapiens

<400> 207  
 Lys Arg Glu Leu Gln Asp Lys Lys Gln His Leu Asp Lys Thr Trp Ala

|                                     |    |    |    |
|-------------------------------------|----|----|----|
| 1                                   | 5  | 10 | 15 |
| Asp Val Glu Asn Leu Asn Ser Gln Asn |    |    |    |
| 20                                  | 25 |    |    |

&lt;210&gt; 208

&lt;211&gt; 26

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (6)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 208

|                                                                 |
|-----------------------------------------------------------------|
| Leu Leu Glu Asn Lys Xaa Gln Leu Leu Gln Glu Glu Ser Arg Leu Ala |
| 1 5 10 15                                                       |

|                                         |
|-----------------------------------------|
| Lys Asn Glu Ala Ala Arg Met Ala Ala Leu |
| 20 25                                   |

&lt;210&gt; 209

&lt;211&gt; 23

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 209

|                                                                 |
|-----------------------------------------------------------------|
| Asn Leu Glu Leu Ser Glu Lys Leu Lys Gly Val Thr Lys Asn Trp Glu |
| 1 5 10 15                                                       |

|                             |
|-----------------------------|
| Asp Val Pro Gly Asp Gln Val |
| 20                          |

&lt;210&gt; 210

&lt;211&gt; 228

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (66)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (127)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (131)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (141)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 210

Ile Arg His Glu Leu Leu Pro Ala Leu His Leu Gln Ala His Asp Ala  
 1 5 10 15

Ala Tyr Asn Leu Leu Phe Phe Ala Ser Gly Gly Gly Lys Phe Asn Tyr  
 20 25 30

Gln Gly Thr Lys Arg Trp Leu Glu Asp Asn Leu Asp His Thr Gly Glu  
 35 40 45

Arg Pro Arg Val Gly Val Gly Val Pro Arg Trp Trp Cys Arg Gly Glu  
 50 55 60

Ala Xaa Arg Pro Arg Gly Cys His Gly Gly Ser Gln Glu Ala Gln Arg  
 65 70 75 80

Glu Gly Arg Gly Pro Leu Pro Gly Pro His Pro Pro Arg Gln Leu Ser  
 85 90 95

Val Ser Cys Arg Leu Gln Pro Ala Ser Gly Gln Cys Gly Leu Arg Ala  
 100 105 110

Val Pro Gly His Arg Gly Pro Gly Gln Gln Pro Ala Pro Ala Xaa Val  
 115 120 125

Arg Pro Xaa Arg Glu Gly Thr Leu Gln His Ala Phe Xaa Arg Glu Leu  
 130 135 140

Glu Thr Val Ala Ala His Gln Phe Pro Glu Val Arg Phe Ser Met Val  
 145 150 155 160

His Lys Arg Ile Asn Leu Ala Glu Asp Val Leu Ala Trp Glu His Glu  
 165 170 175

Arg Phe Ala Ile Arg Arg Leu Pro Ala Phe Thr Leu Ser His Leu Glu  
 180 185 190

Ser His Arg Asp Gly Gln Arg Ser Ser Ile Met Asp Val Arg Ser Arg  
 195 200 205

Val Asp Ser Lys Thr Leu Ile Arg Leu Pro Gln Pro Pro Lys Val Leu  
 210 215 220

Gly Leu Arg Val  
 225

&lt;210&gt; 211

&lt;211&gt; 49

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 211

His Glu Asp His Cys Arg Gly Pro Asp Ser Ser His Leu Gln Pro Asp

1                      5                      10                      15  
 Arg Glu Gly Asp Thr Pro Arg His Ala Gly Val His Arg Ala Asp Asp  
                          20                                      25                                      30  
 Pro Ala Gly Ala Ala Gly Leu Gly Asp Gly Leu Ala His Gln Pro Ala  
                          35                                      40                                      45  
 Ala

<210> 212  
 <211> 49  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (18)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (21)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 212  
 Gly Arg Gln Leu Val Asp Lys Asp Ser Thr Phe Leu Ser Thr Leu Glu  
                          1                                      5                                      10                                      15

His Xaa Leu Ser Xaa Tyr Leu Lys Asp Val Lys Gln His His Val Lys  
                          20                                      25                                      30

Ala Asp Lys Arg Asp Pro Glu Phe Val Phe Tyr Asp Gln Leu Lys Gln  
                          35                                      40                                      45

Val

<210> 213  
 <211> 52  
 <212> PRT  
 <213> Homo sapiens

<400> 213  
 Thr Cys Ser Cys Val His Thr Leu Phe Pro Tyr Ala Phe Phe Met Phe  
                          1                                      5                                      10                                      15

Ser His Met Cys Ser Arg Val Pro Cys Ile His Ser Tyr Val Cys Pro  
                          20                                      25                                      30

Ser His Gly His Gly Ser Ala Leu Glu Arg Val Trp Val Gly Met Cys  
                          35                                      40                                      45

Asn Leu Ser Ser  
                          50

<210> 214  
 <211> 40  
 <212> PRT  
 <213> Homo sapiens

<400> 214  
 Ile Tyr Leu Asn Ile Gln Val Val Arg Gly Gln Arg Lys Val Ile Cys  
           1                  5                  10                  15  
 Leu Leu Lys Glu Gln Ile Ser Asn Glu Gly Glu Asp Lys Ile Phe Leu  
                   20                  25                  30  
 Ile Asn Lys Leu His Ser Ile Tyr  
                   35                  40

<210> 215  
 <211> 27  
 <212> PRT  
 <213> Homo sapiens

<400> 215  
 Glu Arg Lys Glu Arg Glu Glu Arg Ser Arg Val Gly Thr Thr Glu Glu  
           1                  5                  10                  15  
 Ala Ala Ala Pro Pro Ala Leu Leu Thr Asp Glu  
                   20                  25

<210> 216  
 <211> 7  
 <212> PRT  
 <213> Homo sapiens

<400> 216  
 Arg His Glu Met Glu Asn Thr  
           1                  5

<210> 217  
 <211> 9  
 <212> PRT  
 <213> Homo sapiens

<400> 217  
 Tyr Pro Leu Leu Leu Phe Lys Arg Glu  
           1                  5

<210> 218  
 <211> 12  
 <212> PRT  
 <213> Homo sapiens

<400> 218  
 His Pro Ser Asn His Cys Ser Asp Val His Phe His

1 5 10

<210> 219  
 <211> 10  
 <212> PRT  
 <213> Homo sapiens

<400> 219  
 Ile Asp Tyr Thr Asp Lys Met Tyr Trp Ile  
 1 5 10

<210> 220  
 <211> 45  
 <212> PRT  
 <213> Homo sapiens

<400> 220  
 Leu Thr Leu His Leu Arg Gly Ser Ser Asp Thr Val Ser Val Leu Gln  
 1 5 10 15  
 Met Lys Met Arg Phe Phe Ser Ser Pro Cys Gly Lys Ala Ala Val Asp  
 20 25 30  
 Pro Ala Asp Arg Cys Lys Glu Val Gln Gln Ile Arg Asp  
 35 40 45

<210> 221  
 <211> 50  
 <212> PRT  
 <213> Homo sapiens

<400> 221  
 Gln His Pro Ser Lys Ile Pro Val Ile Ile Glu Arg Tyr Lys Gly Glu  
 1 5 10 15  
 Lys Gln Leu Pro Val Leu Asp Lys Thr Lys Phe Leu Val Pro Asp His  
 20 25 30  
 Val Asn Met Ser Glu Leu Val Lys Ile Ile Arg Arg Arg Leu Gln Leu  
 35 40 45  
 Asn Pro  
 50

<210> 222  
 <211> 46  
 <212> PRT  
 <213> Homo sapiens

<400> 222  
 Thr Gln Ala Phe Phe Leu Leu Val Asn Gln His Ser Met Val Ser Val  
 1 5 10 15  
 Ser Thr Pro Ile Ala Asp Ile Tyr Glu Gln Glu Lys Asp Glu Asp Gly

20 25 30  
 Phe Leu Tyr Met Val Tyr Ala Ser Gln Glu Thr Phe Gly Phe  
 35 40 45

<210> 223  
 <211> 19  
 <212> PRT  
 <213> Homo sapiens

<400> 223  
 Ala Glu Gly Arg Ile Leu Ala Ser Pro Val Arg Val Pro Ser Ser His  
 1 5 10 15

Thr Gly Ala

<210> 224  
 <211> 59  
 <212> PRT  
 <213> Homo sapiens

<400> 224  
 Leu Ala Pro His Gly Pro Phe His Gln Cys Gly Gly Arg Phe Ser Gln  
 1 5 10 15

Ala Val Arg Ser Gly Leu Ile Pro Cys His Arg Ala Trp Leu Cys Gln  
 20 25 30

Val Ser Leu Val Ser Gln Arg Leu Glu Gly Val Lys Gly Gln Gly Ser  
 35 40 45

Ala Pro Pro Pro Ala Ser Leu Gly Arg Pro Val  
 50 55

<210> 225  
 <211> 45  
 <212> PRT  
 <213> Homo sapiens

<400> 225  
 Glu Phe Gly Thr Ser Phe Thr Pro Cys Ser Leu Ser Cys Thr His Thr  
 1 5 10 15

His Thr His Thr Pro Gln Glu Thr Leu Pro Gln Leu Ser Pro Asn Pro  
 20 25 30

Ala Glu Gln Pro Ser Val Ala Pro Gln Cys Leu Lys Asn  
 35 40 45

<210> 226  
 <211> 19  
 <212> PRT  
 <213> Homo sapiens

&lt;400&gt; 226

Ala Cys Glu Gly Pro Ala Trp Glu Ser Tyr Thr Leu Ser Pro Ser Ala  
 1 5 10 15

Lys Gln Pro

&lt;210&gt; 227

&lt;211&gt; 9

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 227

Ile Asn Gln Asn His Ser Ile Leu Lys  
 1 5

&lt;210&gt; 228

&lt;211&gt; 28

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 228

His Arg Ile His Phe Thr Tyr Leu Thr Ser Thr Ile Ser Ser Asp Thr  
 1 5 10 15

Phe Ser Met Lys Gln Thr Ile Ala Ile Phe Lys Ile  
 20 25

&lt;210&gt; 229

&lt;211&gt; 70

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (8)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (9)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (58)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 229

Asn Phe Ser Thr Pro Gln Ser Xaa Xaa Ser Pro Thr Ala Thr Phe Glu  
 1 5 10 15

Lys His Gly Glu His Leu Pro Arg Gly Glu Gly Arg Phe Gly Val Ser  
 20 25 30



Arg Arg Arg His Asn Ser Ser Asp Gly Phe Phe Asn Asn Gly Pro Leu  
                   35                                  40                                  45

Arg Thr Ala Gly Asp Ser Trp His Gln Xaa Ser Leu Phe Arg His Asp  
           50                                  55                                  60

Ser Val Asp Ser Gly Val  
       65                                  70

<210> 230

<211> 56

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (29)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (30)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 230

Ser Lys Gly Ala Tyr Ala Gly Ile Thr Gly Asn Pro Ser Gly Trp His  
       1                                  5                                  10                                  15

Ser Ser Ser Arg Gly His Asp Gly Met Ser Gln Arg Xaa Xaa Gly Gly  
                   20                                  25                                  30

Thr Gly Asn His Arg His Trp Asn Gly Ser Phe His Ser Arg Lys Gly  
           35                                  40                                  45

Cys Ala Phe Gln Glu Lys Pro Pro  
       50                                  55

<210> 231

<211> 53

<212> PRT

<213> Homo sapiens

<400> 231

Arg Lys Leu Ser Thr Gly Pro Phe Ser Ala Cys Lys Pro Arg Ala Thr  
       1                                  5                                  10                                  15

Cys Cys Phe Thr Ser Cys Tyr Leu Gln Gln Leu Leu Asp Ala Thr Glu  
           20                                  25                                  30

Asp Gly His Pro Pro Lys Gly Lys Ala Ser Ser Leu Ile Pro Thr Cys  
           35                                  40                                  45

Leu Lys Ile Leu Gln  
       50

<210> 232  
 <211> 29  
 <212> PRT  
 <213> Homo sapiens

<400> 232  
 Thr Ser Cys Tyr Leu Gln Gln Leu Leu Asp Ala Thr Glu Asp Gly His  
           1                  5                  10                  15  
 Pro Pro Lys Gly Lys Ala Ser Ser Leu Ile Pro Thr Cys  
                   20                  25

<210> 233  
 <211> 25  
 <212> PRT  
 <213> Homo sapiens

<400> 233  
 Cys Cys Gly Ala Lys Arg Ile Met Lys Glu Ala Leu His Trp Ala Leu  
           1                  5                  10                  15  
 Phe Ser Met Gln Ala Thr Gly His Val  
                   20                  25

<210> 234  
 <211> 196  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (13)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (15)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (91)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (126)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 234  
 Pro Pro Ala Gly Ala Thr Ser Pro Gly Arg Ile Ile Xaa Pro Xaa Ser  
           1                  5                  10                  15  
 Ala Val Leu Ile Pro Ser Pro Val Lys Ser Tyr Arg Gly Trp Leu Val  
                   20                  25                  30

Met Gly Glu Pro Ser Arg Glu Glu Tyr Lys Ile Gln Ser Phe Asp Ala  
 35 40 45

Glu Thr Gln Gln Leu Leu Lys Thr Ala Leu Lys Asp Pro Gly Ala Val  
 50 55 60

Asp Leu Glu Lys Val Ala Asn Val Ile Val Asp His Ser Leu Gln Asp  
 65 70 75 80

Cys Val Phe Ser Lys Glu Ala Gly Arg Met Xaa Tyr Ala Ile Ile Gln  
 85 90 95

Ala Glu Ser Lys Gln Ala Gly Gln Ser Val Phe Arg Arg Gly Leu Leu  
 100 105 110

Asn Arg Leu Gln Gln Glu Tyr Gln Ala Arg Glu Gln Leu Xaa Ala Arg  
 115 120 125

Ser Leu Gln Gly Trp Val Cys Tyr Val Thr Phe Ile Cys Asn Ile Phe  
 130 135 140

Asp Tyr Leu Arg Val Asn Asn Met Pro Met Met Ala Leu Val Asn Pro  
 145 150 155 160

Val Tyr Asp Cys Leu Phe Arg Leu Ala Gln Pro Asp Ser Leu Ser Lys  
 165 170 175

Glu Glu Glu Val Asp Cys Leu Val Leu Gln Leu His Arg Val Gly Glu  
 180 185 190

Gln Leu Glu Lys  
 195

&lt;210&gt; 235

&lt;211&gt; 24

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (6)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (8)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 235

Pro Gly Arg Ile Ile Xaa Pro Xaa Ser Ala Val Leu Ile Pro Ser Pro  
 1 5 10 15

Val Lys Ser Tyr Arg Gly Trp Leu  
 20

<210> 236  
 <211> 25  
 <212> PRT  
 <213> Homo sapiens

<400> 236  
 Lys Gln Ala Gly Gln Ser Val Phe Arg Arg Gly Leu Leu Asn Arg Leu  
   1                  5                  10                  15  
 Gln Gln Glu Tyr Gln Ala Arg Glu Gln  
           20                  25

<210> 237  
 <211> 21  
 <212> PRT  
 <213> Homo sapiens

<400> 237  
 Tyr Asp Cys Leu Phe Arg Leu Ala Gln Pro Asp Ser Leu Ser Lys Glu  
   1                  5                  10                  15  
 Glu Glu Val Asp Cys  
           20

<210> 238  
 <211> 127  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (19)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 238  
 Met Lys Arg Thr Ser Val Asn Pro Gln Thr Leu Cys Glu Ala Arg Pro  
   1                  5                  10                  15  
 Ala Gly Xaa Ser Gln Gln Pro Leu Ser Leu Asp Ser Glu Ala Pro Arg  
           20                  25                  30  
 Gly Gly Val Ala Pro Pro Arg Leu Gln Gly Pro Pro Pro His Gln Arg  
           35                  40                  45  
 Val His Leu Thr Leu Glu Cys Thr Thr His Pro Thr Val Gly Lys Ala  
           50                  55                  60  
 Ser Val Leu Gly Pro Cys Leu Leu Leu Leu Ser Cys Pro Arg Ala Pro  
   65                  70                  75                  80  
 Ala Gly Pro Pro Pro Pro Pro His Ser Arg Val Arg Ala Gly Gly Cys  
           85                  90                  95  
 Arg Pro Trp Ala Arg Arg Glu Gly His Cys Arg Pro Leu Gly Ala Asp  
           100                  105                  110

Thr Asp Thr Ser Arg Ile Cys His Gly Arg Arg Pro Phe Ser Leu  
 115 120 125

<210> 239  
 <211> 76  
 <212> PRT  
 <213> Homo sapiens

<400> 239  
 Met Ser Leu Pro Ala Ala Pro Ala Gly Arg Leu Ser Pro Leu Tyr Trp  
 1 5 10 15  
 Arg Ser Ser Asn Thr Arg Ser Gln Leu Ser Leu Leu Trp Glu Leu Gly  
 20 25 30  
 His Phe Phe Thr Arg Cys Cys Arg Arg Pro His Pro Asn Pro His Leu  
 35 40 45  
 Pro Ala Leu Ser Val Cys Arg Cys His Ile Leu His Lys Ile Met Leu  
 50 55 60  
 Trp Glu Pro Ser Ser Pro Leu Leu Pro Ala Leu Pro  
 65 70 75

<210> 240  
 <211> 86  
 <212> PRT  
 <213> Homo sapiens

<400> 240  
 Met Thr Ser Pro Gly Gln Gly Arg Ala Gly Arg Arg Gly Asp Glu Gly  
 1 5 10 15  
 Ser His Asn Met Ile Leu Cys Lys Ile Trp Gln Arg His Thr Leu Arg  
 20 25 30  
 Ala Gly Arg Trp Gly Leu Gly Trp Gly Arg Arg Gln His Arg Val Lys  
 35 40 45  
 Lys Cys Pro Ser Ser His Ser Lys Glu Ser Cys Asp Arg Val Phe Glu  
 50 55 60  
 Leu Leu Gln Tyr Lys Gly Glu Ser Arg Pro Ala Gly Ala Ala Gly Arg  
 65 70 75 80  
 Asp Ile Ile Trp Phe Pro  
 85

<210> 241  
 <211> 17  
 <212> PRT  
 <213> Homo sapiens

<400> 241  
 Pro Ser Leu Arg Gly Pro Lys Ala Gly Ala Pro Pro Arg Trp Arg Pro

1                      5                      10                      15

Leu

<210> 242  
 <211> 25  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (7)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 242  
 Asn Leu Val Asp Pro Pro Xaa Cys Arg Asn Ser Ala Arg Glu Thr Leu  
           1                      5                      10                      15

Lys Leu Gly Arg Val Glu Val Ser Ile  
                           20                      25

<210> 243  
 <211> 7  
 <212> PRT  
 <213> Homo sapiens

<400> 243  
 Lys Ala Gly Ala Pro Pro Arg  
           1                      5

<210> 244  
 <211> 6  
 <212> PRT  
 <213> Homo sapiens

<400> 244  
 Cys Arg Asn Ser Ala Arg  
           1                      5

<210> 245  
 <211> 109  
 <212> PRT  
 <213> Homo sapiens

<400> 245  
 Gln Asp Ser Arg Lys Met Leu Pro Ser Thr Ser Val Asn Ser Leu Val  
           1                      5                      10                      15

Gln Gly Asn Gly Val Leu Asn Ser Arg Asp Ala Ala Arg His Thr Ala  
                           20                      25                      30

Gly Ala Lys Arg Tyr Lys Tyr Leu Arg Arg Leu Phe Arg Phe Arg Gln  
                           35                      40                      45

Met Asp Phe Glu Phe Ala Ala Trp Gln Met Leu Tyr Leu Phe Thr Ser  
50 55 60

Pro Gln Arg Val Tyr Arg Asn Phe His Tyr Arg Lys Gln Thr Lys Asp  
65 70 75 80

Gln Trp Ala Arg Asp Asp Pro Ala Phe Leu Val Leu Leu Ser Ile Trp  
85 90 95

Leu Cys Val Ser Thr Ile Gly Phe Gly Phe Val Leu Asp  
100 105

<210> 246

<211> 117

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 246

Asn Xaa Gln Ser Arg Asp Tyr Asp Val Glu Trp Gly Tyr Ala Phe Asp  
1 5 10 15

Val His Leu Asn Ala Phe Tyr Pro Leu Leu Val Ile Leu His Phe Ile  
20 25 30

Gln Leu Phe Phe Ile Asn His Val Ile Leu Thr Asp Thr Phe Ile Gly  
35 40 45

Tyr Leu Val Gly Asn Thr Leu Trp Leu Val Ala Val Gly Tyr Tyr Ile  
50 55 60

Tyr Val Thr Phe Leu Gly Tyr Ser Ala Leu Pro Phe Leu Lys Asn Thr  
65 70 75 80

Val Ile Leu Leu Tyr Pro Phe Ala Pro Leu Ile Leu Leu Tyr Gly Leu  
85 90 95

Ser Leu Ala Leu Gly Trp Asn Phe Thr His Thr Leu Cys Ser Phe Tyr  
100 105 110

Lys Tyr Arg Val Lys  
115

<210> 247

<211> 45

<212> PRT

<213> Homo sapiens

<400> 247

Ser Val Asn Ser Leu Val Gln Gly Asn Gly Val Leu Asn Ser Arg Asp  
1 5 10 15

Ala Ala Arg His Thr Ala Gly Ala Lys Arg Tyr Lys Tyr Leu Arg Arg  
                   20                  25                  30

Leu Phe Arg Phe Arg Gln Met Asp Phe Glu Phe Ala Ala  
           35                  40                  45

<210> 248

<211> 23

<212> PRT

<213> Homo sapiens

<400> 248

Val Ile Leu Thr Asp Thr Phe Ile Gly Tyr Leu Val Gly Asn Thr Leu  
   1                  5                  10                  15

Trp Leu Val Ala Val Gly Tyr  
                   20

<210> 249

<211> 16

<212> PRT

<213> Homo sapiens

<400> 249

Gly Trp Asn Phe Thr His Thr Leu Cys Ser Phe Tyr Lys Tyr Arg Val  
   1                  5                  10                  15

<210> 250

<211> 47

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (29)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 250

Ser Ala Ser Xaa Thr Ser Phe Pro Gly Ile Asn Thr Glu Gly Val Ala  
   1                  5                  10                  15



Pro Thr Glu Gln Glu Glu Pro Asp Pro Ala Asn Leu Glu Val Asp His  
35 40 45

<210> 254  
 <211> 47  
 <212> PRT  
 <213> Homo sapiens

<400> 254  
 Asp Phe Phe Gln Asp Lys Val Trp Pro His Leu Ala Leu Arg Val Pro  
 1 5 10 15  
 Ala Phe Glu Thr Leu Lys Val Gln Ser Ala Trp Ala Gly Tyr Tyr Asp  
 20 25 30  
 Tyr Asn Thr Phe Asp Gln Asn Gly Val Val Gly Pro His Pro Leu  
 35 40 45

<210> 255  
 <211> 59  
 <212> PRT  
 <213> Homo sapiens

<400> 255  
 Val Val Asn Met Tyr Phe Ala Thr Gly Phe Ser Gly His Gly Leu Gln  
 1 5 10 15  
 Gln Ala Pro Gly Ile Gly Arg Ala Val Ala Glu Met Val Leu Lys Gly  
 20 25 30  
 Arg Phe Gln Thr Ile Asp Leu Ser Pro Phe Leu Phe Thr Arg Phe Tyr  
 35 40 45  
 Leu Gly Glu Lys Ile Gln Glu Asn Asn Ile Ile  
 50 55

<210> 256  
 <211> 46  
 <212> PRT  
 <213> Homo sapiens

<400> 256  
 Ile Arg His Glu Ser Ile Ser Gly Ser Asp Phe Glu Lys Phe Cys Cys  
 1 5 10 15  
 Val Thr Gln Ile Arg Lys Ser His Ile Phe Gly Leu Val Pro Leu Arg  
 20 25 30  
 Thr Lys Thr Cys Asn Lys Arg Tyr Leu Leu Ser Ser Phe Ala  
 35 40 45

<210> 257  
 <211> 24  
 <212> PRT  
 <213> Homo sapiens

&lt;400&gt; 257

Cys Cys Val Thr Gln Ile Arg Lys Ser His Ile Phe Gly Leu Val Pro  
 1 5 10 15

Leu Arg Thr Lys Thr Cys Asn Lys  
 20

&lt;210&gt; 258

&lt;211&gt; 51

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 258

Asn Ser Ala Arg Ala Gly Ser Ser Arg Arg Arg Arg Ser Ile Gln Asn  
 1 5 10 15

Gln Glu Ala Phe Asp Leu Asp Val Ala Val Lys Glu Asn Lys Asp Asp  
 20 25 30

Leu Asn His Val Asp Leu Asn Val Cys Thr Ser Phe Ser Gly Pro Gly  
 35 40 45

Arg Ser Gly  
 50

&lt;210&gt; 259

&lt;211&gt; 21

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 259

Asn Gln Glu Ala Phe Asp Leu Asp Val Ala Val Lys Glu Asn Lys Asp  
 1 5 10 15

Asp Leu Asn His Val  
 20

&lt;210&gt; 260

&lt;211&gt; 16

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 260

Met Ile Asn Cys Gly Ile Leu Val Phe Lys Met Arg Ile Val Phe Lys  
 1 5 10 15

&lt;210&gt; 261

&lt;211&gt; 20

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 261

Pro Met Val Leu Lys Leu Lys Asp Trp Pro Pro Gly Glu Asp Phe Arg  
 1 5 10 15

Asp Met Met Pro  
 20

&lt;210&gt; 262

&lt;211&gt; 16

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 262

Tyr Phe Val Arg Pro Asp Leu Gly Pro Lys Met Tyr Asn Ala Tyr Gly  
 1 5 10 15

&lt;210&gt; 263

&lt;211&gt; 9

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 263

Asn Ser Ala Arg Glu Asp Gly Gln Pro  
 1 5

&lt;210&gt; 264

&lt;211&gt; 8

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 264

Leu Asn Leu Ala Ser Arg Leu Pro  
 1 5

&lt;210&gt; 265

&lt;211&gt; 114

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 265

Asn Ser Ala Arg Glu Asp Gly Gln Pro Met Val Leu Lys Leu Lys Asp  
 1 5 10 15

Trp Pro Pro Gly Glu Asp Phe Arg Asp Met Met Pro Thr Arg Phe Glu  
 20 25 30

Asp Leu Met Glu Asn Leu Pro Leu Pro Glu Tyr Thr Lys Arg Asp Gly  
 35 40 45

Arg Leu Asn Leu Ala Ser Arg Leu Pro Ser Tyr Phe Val Arg Pro Asp

50

55

60

Leu Gly Pro Lys Met Tyr Asn Ala Tyr Gly Met Arg Glu Arg Leu Lys  
 65 70 75 80

Leu Leu Phe Trp Gly Thr Val Val Leu Ile Ser Thr Ile Glu Gly Tyr  
 85 90 95

Leu Trp Ser Met Ser Gly Ile Glu Met Ile Ala Gly Lys Cys Trp Arg  
 100 105 110

Ser Glu

<210> 266

<211> 14

<212> PRT

<213> Homo sapiens

<400> 266

Glu Phe Gly Thr Arg Ser Val Ser Ile Gly Tyr Trp Met Gly  
 1 5 10

<210> 267

<211> 167

<212> PRT

<213> Homo sapiens

<400> 267

Tyr Phe Val Leu Leu Cys Pro Ser Asp Leu Val Leu Gln Ala Pro Pro  
 1 5 10 15

Leu Gly Cys Leu Leu Tyr Thr Ser His Lys Gly Leu Trp Ala Val Met  
 20 25 30

Lys Met Lys Ile Ile Leu Arg Thr Leu Leu Val Trp His Ala Ile Thr  
 35 40 45

Asp Asp Asp Val Asp Asp Asp Ser Asp Glu Gly Ala Met Ala Ala Ile  
 50 55 60

Ala Arg Tyr Met Pro Asp Ser Val Leu Met Thr Leu Ala Glu Phe Glu  
 65 70 75 80

Thr Ala Arg Glu Ala Trp Asn Ala Leu Lys Lys Met Arg Ile Gly Glu  
 85 90 95

Asp Arg Val Thr Lys Ala Trp Thr Gln Val Leu Lys Arg Gln Phe His  
 100 105 110

Lys Leu His Met Glu Glu Thr Glu Ser Val Asn Asp Tyr Ala Met Cys  
 115 120 125

Leu Thr Thr Leu Val Gly Glu Phe Arg Ala Leu Gly Ala Lys Leu Asp  
 130 135 140

Glu Thr Glu Ile Val Glu Lys Ile Phe Ser Ser Val Thr Asp Lys Phe  
 145 150 155 160

Thr Tyr Ile Ile Gly Thr Leu  
 165

<210> 268  
 <211> 27  
 <212> PRT  
 <213> Homo sapiens

<400> 268  
 Leu Val Leu Gln Ala Pro Pro Leu Gly Cys Leu Leu Tyr Thr Ser His  
 1 5 10 15

Lys Gly Leu Trp Ala Val Met Lys Met Lys Ile  
 20 25

<210> 269  
 <211> 25  
 <212> PRT  
 <213> Homo sapiens

<400> 269  
 Ala Ile Ala Arg Tyr Met Pro Asp Ser Val Leu Met Thr Leu Ala Glu  
 1 5 10 15

Phe Glu Thr Ala Arg Glu Ala Trp Asn  
 20 25

<210> 270  
 <211> 24  
 <212> PRT  
 <213> Homo sapiens

<400> 270  
 Ala Met Cys Leu Thr Thr Leu Val Gly Glu Phe Arg Ala Leu Gly Ala  
 1 5 10 15

Lys Leu Asp Glu Thr Glu Ile Val  
 20

<210> 271  
 <211> 10  
 <212> PRT  
 <213> Homo sapiens

<400> 271  
 Val Ala Pro Ser His Arg Val His Cys Gln  
 1 5 10

<210> 272  
 <211> 16

<212> PRT  
 <213> Homo sapiens

<400> 272  
 Leu Arg Gln Ser Leu Ala Leu Ser Ser Arg Leu Glu Cys Ser Gly Ala  
           1                  5                  10                  15

<210> 273  
 <211> 18  
 <212> PRT  
 <213> Homo sapiens

<400> 273  
 Asp Ala Tyr Asn Ser Ile His Phe Val Asp Thr Ile Ile Ala Arg Thr  
           1                  5                  10                  15

Lys Ile

<210> 274  
 <211> 31  
 <212> PRT  
 <213> Homo sapiens

<400> 274  
 Arg Gly Ile Arg Phe Cys Gln Met Leu Ser Leu His Lys Thr Ser Ser  
           1                  5                  10                  15

Leu Pro Leu Leu Phe Asn Leu Glu Ala Phe Ser Met Pro Pro Ala  
                   20                  25                  30

<210> 275  
 <211> 62  
 <212> PRT  
 <213> Homo sapiens

<400> 275  
 Leu Ala Ile Ser His Ser Tyr Lys Ser Leu Leu Gln Gly Ile Pro Gly  
           1                  5                  10                  15

Ser Ser Tyr Phe Lys Val Pro Thr His His Ser Xaa Ile Phe Ser Ile  
                   20                  25                  30

His Ala Thr Thr Glu Pro Ser Lys Tyr Ser Ala Ile Met Lys Pro Thr  
           35                  40                  45

Gln Gln Ser His Ile Ala Phe Phe Phe Lys Lys Lys Asn Lys  
           50                  55                  60

<210> 276  
 <211> 34

<212> PRT  
 <213> Homo sapiens

<400> 276  
 Gln Gly Ile Pro Gly Ser Ser Tyr Phe Lys Val Pro Thr His His Ser  
 1 5 10 15

Xaa Ile Phe Ser Ile His Ala Thr Thr Glu Pro Ser Lys Tyr Ser Ala  
 20 25 30

Ile Met

<210> 277  
 <211> 6  
 <212> PRT  
 <213> Homo sapiens

<400> 277  
 Trp Leu Phe Leu Lys Glu  
 1 5

<210> 278  
 <211> 9  
 <212> PRT  
 <213> Homo sapiens

<400> 278  
 Ile Arg His Glu Asp Gln Ala Pro Ala  
 1 5

<210> 279  
 <211> 34  
 <212> PRT  
 <213> Homo sapiens

<400> 279  
 Ile Arg His Glu Leu Ala Cys Ser Arg Thr Gly Phe Leu Ala Leu Ser  
 1 5 10 15

Gln Cys Ser Phe Pro His Thr Thr Leu Thr Gly Phe Pro Gly Gln Arg  
 20 25 30

Ala Gly

<210> 280  
 <211> 100  
 <212> PRT  
 <213> Homo sapiens

<400> 280  
 Ile Leu Ser Val Met Glu Ser Ser Pro Leu Ser Lys Gly Leu Gly Lys  
 1 5 10 15



Gly Gly Val Leu Val Thr Thr Glu Thr Val Glu Thr Asn Leu His Val  
20 25 30

Pro Gln Met Ile Leu Phe Gln Gly Ser Leu Met Ser Met Lys Glu Leu  
35 40 45

Asp Leu Ser Leu Thr Ser Leu Gln Ser Val Cys Ser Leu Gln Met Gly  
50 55 60

Lys Gln Arg Leu Asn Glu Val Lys Leu Gly Ile Phe Leu Asn Ser Val  
65 70 75 80

Phe Pro Ser Thr Asp Ser Gly Ala Phe Arg Cys Gln Met Arg Ile Asp  
85 90 95

Gly Trp Val Arg  
100

<210> 281

<211> 21

<212> PRT

<213> Homo sapiens

<400> 281

Gly Val Leu Val Thr Thr Glu Thr Val Glu Thr Asn Leu His Val Pro  
1 5 10 15

Gln Met Ile Leu Phe  
20

<210> 282

<211> 30

<212> PRT

<213> Homo sapiens

<400> 282

Leu Gln Met Gly Lys Gln Arg Leu Asn Glu Val Lys Leu Gly Ile Phe  
1 5 10 15

Leu Asn Ser Val Phe Pro Ser Thr Asp Ser Gly Ala Phe Arg  
20 25 30

<210> 283

<211> 84

<212> PRT

<213> Homo sapiens

<400> 283

Glu Leu Val Glu Ser Pro Gly Leu Ala Gly Ile Arg His Glu Thr Ser  
1 5 10 15

Thr Asn Ser Ser Leu Ser Thr Asp Asn Leu Thr Ser Ile Phe Thr Glu  
20 25 30

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<210> 284
<211> 31
<212> PRT.
<213> Homo sapiens
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<210> 285
<211> 50
<212> PRT
<213> Homo sapiens
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<210> 286
<211> 29
<212> PRT
<213> Homo sapiens
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<400> 286  
Cys Ala His His Leu Thr Ala Cys Cys Ser Tyr Cys Pro Gly Pro Ala  
1 5 10 15  
Pro Leu Pro Met Tyr Trp Ser Leu Ser Leu His Pro Phe  
20 25

<210> 287  
 <211> 46  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (38)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 287  
 Gln His Phe Leu Leu Leu Leu Tyr Arg Ile Lys Met Leu Tyr Phe Leu  
           1                  5                  10                  15  
 Pro Ser Leu Lys Lys Lys Lys Ser Leu Leu Thr Leu Tyr Leu Pro Pro  
                   20                  25                  30  
 Ala Thr Asn Cys Ile Xaa Leu Leu Cys Phe Lys Glu Lys Lys  
                   35                  40                  45

<210> 288  
 <211> 9  
 <212> PRT  
 <213> Homo sapiens

<400> 288  
 Asn Ser Ala Arg Glu Lys Asn Lys Asn  
           1                  5

<210> 289  
 <211> 92  
 <212> PRT  
 <213> Homo sapiens

<400> 289  
 Ala Gln Gln Phe Ile Asn Asn Ile Met Gly Ser Leu Ser Tyr Gly Gln  
           1                  5                  10                  15  
 Arg Glu Lys Lys Lys Asn Pro Lys Gln Gln Ser Leu Ser Cys Pro Leu  
                   20                  25                  30  
 Gly Gly Thr Ala Pro Gln Asp Gly Glu Lys Gly Ser Leu Pro Ser Lys  
           35                  40                  45  
 Val Leu Phe Leu Glu Ala Phe His Ser Gln Ile Leu Leu Leu Leu Leu  
           50                  55                  60  
 Leu Pro Pro Pro Trp Met Thr Trp Gly Leu Thr His Glu Ser Met Glu  
           65                  70                  75                  80  
 Phe Ser Gln Ala Ala Glu His Ser Gly Ser His Leu  
                   85                  90

<210> 290  
 <211> 24

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 290

Gly Thr Ala Pro Gln Asp Gly Glu Lys Gly Ser Leu Pro Ser Lys Val  
 1 5 10 15

Leu Phe Leu Glu Ala Phe His Ser  
 20

&lt;210&gt; 291

&lt;211&gt; 123

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (18)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (29)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids.

&lt;400&gt; 291

Gln Asp Leu Thr Leu Leu Pro Arg Leu Glu Cys Ser Gly Thr Ile Thr  
 1 5 10 15

Ala Xaa His Asn Leu Lys Leu Leu Gly Ser Ser Tyr Xaa Pro Ala Ser  
 20 25 30

Ser Pro Gln Ser Ala Arg Ile Thr Gly Val Ser His Cys Ala Gln Gln  
 35 40 45

Leu Gly Lys Thr Pro Tyr Ser His Val Ser Val Pro Arg Ser Ser Met  
 50 55 60

Val Gly Ala Ala Ala Thr Thr Lys Glu Ser Gly Asn Gly Lys Pro Pro  
 65 70 75 80

Gly Thr Lys Leu Leu Lys Glu Gly Asn Leu Ser Leu His Pro Val Glu  
 85 90 95

Pro Cys Leu Gln Val Gly Arg Thr Asn Ser Val Val Leu Gly Phe Phe  
 100 105 110

Ser Ser Leu Ser Val His Arg Lys Val Thr Pro  
 115 120

&lt;210&gt; 292

&lt;211&gt; 18

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

<221> SITE  
 <222> (7)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (18)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 292  
 Ser Gly Thr Ile Thr Ala Xaa His Asn Leu Lys Leu Leu Gly Ser Ser  
           1                  5                  10                  15

Tyr Xaa

<210> 293  
 <211> 24  
 <212> PRT  
 <213> Homo sapiens

<400> 293  
 Val Glu Pro Cys Leu Gln Val Gly Arg Thr Asn Ser Val Val Leu Gly  
           1                  5                  10                  15

Phe Phe Ser Ser Leu Ser Val His  
                           20

<210> 294  
 <211> 7  
 <212> PRT  
 <213> Homo sapiens

<400> 294  
 Cys Phe Phe Cys Leu Ser Thr  
           1                  5

<210> 295  
 <211> 90  
 <212> PRT  
 <213> Homo sapiens

<400> 295  
 Asn Leu Arg His Gly Leu Lys Thr Leu Phe Arg Leu Thr Trp Lys Ile  
           1                  5                  10                  15

Asn Met Ile Leu Ser Ser Phe Lys Asp Leu Thr Glu Gly Ser Thr Glu  
                   20                  25                  30

Glu Thr Phe Asn Phe Lys Ile Ile Phe Ser Cys Ile Asn Ile Leu Trp  
           35                  40                  45

Glu Asn Asn Phe Lys Asn Arg Ile Val Leu Arg Gln Lys Lys His Gln  
           50                  55                  60

Ser Ala Phe Pro Phe Glu Ser Leu Ser Asp Ser Ser Gln Ala Lys Met  
65 70 75 80

Phe Asn Ser Leu Val Val Pro Ser Asn Ile  
85 90

<210> 296

<211> 26

<212> PRT

<213> Homo sapiens

<400> 296

Asn Met Ile Leu Ser Ser Phe Lys Asp Leu Thr Glu Gly Ser Thr Glu  
1 5 10 15

Glu Thr Phe Asn Phe Lys Ile Ile Phe Ser  
20 25

<210> 297

<211> 23

<212> PRT

<213> Homo sapiens

<400> 297

Lys His Gln Ser Ala Phe Pro Phe Glu Ser Leu Ser Asp Ser Ser Gln  
1 5 10 15

Ala Lys Met Phe Asn Ser Leu  
20

<210> 298

<211> 153

<212> PRT

<213> Homo sapiens

<400> 298

Val Lys Pro Asp Pro Pro Arg Ala Pro Gly Glu Asn Glu Asp Ser Ser  
1 5 10 15

Val Pro Glu Thr Pro Asp Asn Glu Arg Lys Ala Ser Ile Ser Tyr Phe  
20 25 30

Lys Asn Gln Arg Gly Ile Gln Tyr Ile Asp Leu Ser Ser Asp Ser Glu  
35 40 45

Asp Val Val Ser Pro Asn Cys Ser Asn Thr Val Gln Glu Lys Thr Phe  
50 55 60

Asn Lys Asp Thr Val Ile Ile Val Ser Glu Pro Ser Glu Asp Glu Glu  
65 70 75 80

Ser Gln Gly Leu Pro Thr Met Ala Arg Arg Asn Asp Asp Ile Ser Glu  
85 90 95

Leu Glu Asp Leu Ser Glu Leu Glu Asp Leu Lys Asp Ala Lys Leu Gln

100                      105                      110  
 Thr Leu Lys Glu Leu Phe Pro Gln Arg Ser Asp Asn Asp Leu Leu Lys  
           115                      120                      125  
 Val Ile Phe Ile Gly Tyr Cys Ser Cys Asn Asp Asp Lys Ile Ser Pro  
           130                      135                      140  
 Ala Phe Ser Ala Ile Val Ser Ser Gly  
           145                      150

<210> 299  
 <211> 17  
 <212> PRT  
 <213> Homo sapiens

<400> 299  
 Lys Asp Ala Lys Leu Gln Thr Leu Lys Glu Leu Phe Pro Gln Arg Ser  
           1                      5                      10                      15  
 Asp

<210> 300  
 <211> 16  
 <212> PRT  
 <213> Homo sapiens

<400> 300  
 Lys Asp Thr Val Ile Ile Val Ser Glu Pro Ser Glu Asp Glu Glu Ser  
           1                      5                      10                      15

<210> 301  
 <211> 16  
 <212> PRT  
 <213> Homo sapiens

<400> 301  
 Glu Asp Ser Ser Val Pro Glu Thr Pro Asp Asn Glu Arg Lys Ala Ser  
           1                      5                      10                      15

<210> 302  
 <211> 21  
 <212> PRT  
 <213> Homo sapiens

<400> 302  
 Ser Leu Ile Leu Gln Glu His Gln Glu Lys Met Lys Ile Leu Val Phe

1

5

10

15

Gln Lys Leu Gln Ile  
20

&lt;210&gt; 303

&lt;211&gt; 7

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 303

Glu Asp Ser Ser Val Pro Glu

1

5

&lt;210&gt; 304

&lt;211&gt; 8

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 304

Pro Asp Asn Glu Arg Lys Ala Ser

1

5

&lt;210&gt; 305

&lt;211&gt; 7

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 305

Tyr Ile Asp Leu Ser Ser Asp

1

5

&lt;210&gt; 306

&lt;211&gt; 12

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 306

Ile Ile Val Ser Glu Pro Ser Glu Asp Glu Glu Ser

1

5

10

&lt;210&gt; 307

&lt;211&gt; 18

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 307

Leu Lys Asp Ala Lys Leu Gln Thr Leu Lys Glu Leu Phe Pro Gln Arg

1

5

10

15

Ser Asp



<210> 308  
 <211> 10  
 <212> PRT  
 <213> Homo sapiens

<400> 308  
 Ala Gly Pro Asp Ala Pro Gly Leu Trp Gly  
           1                  5                  10

<210> 309  
 <211> 53  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (36)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 309  
 Met Leu Phe Pro Ser Leu Leu Leu Leu Gln Ala Leu Val His Val Phe  
           1                  5                  10                  15

Val Leu Val Lys Leu Glu Tyr Ile Val Ile Ser Leu Asp His Thr Pro  
                   20                  25                  30

Asn Phe Lys Xaa Ser Val Lys Asn Ile Glu Val Leu Val Gly Leu Ala  
           35                  40                  45

Leu Ala Thr Tyr Glu  
           50

<210> 310  
 <211> 28  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (21)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 310  
 Phe Val Leu Val Lys Leu Glu Tyr Ile Val Ile Ser Leu Asp His Thr  
           1                  5                  10                  15

Pro Asn Phe Lys Xaa Ser Val Lys Asn Ile Glu Val  
                   20                  25

<210> 311  
 <211> 8  
 <212> PRT  
 <213> Homo sapiens

&lt;400&gt; 311

Phe Gln Leu Asp Lys Phe Leu Ser

1

5

&lt;210&gt; 312

&lt;211&gt; 125

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (67)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 312

Gln Arg Gln Val Met Arg Ser Phe Leu Phe Ser Phe Ser Phe Phe Val

1

5

10

15

Gly Gly Gly Asp Arg Val Ser Leu Cys His Pro Gly Arg Ser Val Val

20

25

30

Val Gln Ser Arg Leu Thr Ala Ile Ser Pro His Pro Thr Ser Arg Phe

35

40

45

Lys Arg Phe Leu Cys Leu Arg Leu Leu Ser Ser Trp His Tyr Arg Cys

50

55

60

Thr Pro Xaa Arg Trp Ala Lys Phe Cys Ile Leu Val Gly Met Gly Phe

65

70

75

80

His His Val Leu Arg Phe Thr Met Leu Ala Arg Leu Val Leu Asp Ser

85

90

95

Trp Pro Glu Val Ile Cys Leu Pro Ser Val Ser Gln Lys Cys Trp Asp

100

105

110

Tyr Arg Arg Glu Pro Pro His Ser Ala Glu Lys Phe Phe

115

120

125

&lt;210&gt; 313

&lt;211&gt; 27

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 313

Pro Gly Arg Ser Val Val Val Gln Ser Arg Leu Thr Ala Ile Ser Pro

1

5

10

15

His Pro Thr Ser Arg Phe Lys Arg Phe Leu Cys

20

25

&lt;210&gt; 314

&lt;211&gt; 30

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 314

Met Gly Phe His His Val Leu Arg Phe Thr Met Leu Ala Arg Leu Val  
 1 5 10 15

Leu Asp Ser Trp Pro Glu Val Ile Cys Leu Pro Ser Val Ser  
 20 25 30

&lt;210&gt; 315

&lt;211&gt; 9

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 315

Glu Phe Leu Lys Ser Thr Leu Asp Gly  
 1 5

&lt;210&gt; 316

&lt;211&gt; 74

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 316

Ser Lys Arg Arg Lys Lys Val Ser Trp Leu His Phe Val Phe Ser Ile  
 1 5 10 15

Thr Phe Leu Val Ile Asp Leu Val Ile Asp Asn Gly Val Thr Ala Leu  
 20 25 30

Glu Thr Phe Phe Pro Ser Gly Ile Asp Ala Tyr Arg Thr Ala Pro Trp  
 35 40 45

Pro Leu Asp Gln Ala Gln Arg Asn Leu Gln Pro Glu Ala Leu Val Pro  
 50 55 60

Ala His Pro Ser Tyr Val Gly Pro Trp Arg  
 65 70

&lt;210&gt; 317

&lt;211&gt; 21

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 317

Ser Ile Thr Phe Leu Val Ile Asp Leu Val Ile Asp Asn Gly Val Thr  
 1 5 10 15

Ala Leu Glu Thr Phe  
 20

&lt;210&gt; 318

&lt;211&gt; 22

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 318

Ala Pro Trp Pro Leu Asp Gln Ala Gln Arg Asn Leu Gln Pro Glu Ala  
 1 5 10 15

Leu Val Pro Ala His Pro  
 20

&lt;210&gt; 319

&lt;211&gt; 14

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 319

Arg Thr Pro Phe Ser Ile Ser Tyr Ser Ile Gly Leu Val Leu  
 1 5 10

&lt;210&gt; 320

&lt;211&gt; 40

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 320

Met Arg Ser Leu Ser Phe Leu Phe Thr Trp Glu Asn Leu Tyr Phe Ser  
 1 5 10 15

Phe Thr Phe Glu Val Tyr Phe Tyr Trp Met Tyr Tyr Ser Arg Met Lys  
 20 25 30

Val Phe Ser Phe Asn Thr Leu Asn  
 35 40

&lt;210&gt; 321

&lt;211&gt; 25

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 321

Met Leu Cys His Phe Leu Leu Ala Cys Lys Val Ser Leu Arg Ser Leu  
 1 5 10 15

Leu Gln Asp Val Trp Glu Leu Ile Cys  
 20 25

&lt;210&gt; 322

&lt;211&gt; 29

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (8)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 322

Met Leu Phe Val Ser Phe Leu Xaa Leu Pro Ser Phe Lys Ile Leu Ser  
 1 5 10 15

Leu Ser Leu Thr Phe Gly Ser Leu Ile Ile Lys Cys Leu  
 20 25

&lt;210&gt; 323

&lt;211&gt; 24

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 323

Leu Ile Thr Leu His Leu Ile Leu Phe Pro Phe Leu Thr Phe Tyr Leu  
 1 5 10 15

Phe Ile Tyr Tyr Ser Ala Met Ser  
 20

&lt;210&gt; 324

&lt;211&gt; 30

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 324

Lys Val Val Val Val Ile Ile Leu Ile Gly Leu Ser Phe Ser Leu Ser  
 1 5 10 15

Thr Gln Asp Met Ser Ser Leu His Thr Thr Ile Ala Val Ser  
 20 25 30

&lt;210&gt; 325

&lt;211&gt; 41

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (3)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 325

Leu Ser Xaa Thr Leu Trp Gly Asn Gly Val Asp Ser Gly Gly Leu Ala  
 1 5 10 15

Phe Phe Pro Arg Leu Gly Val Gly Glu Thr Arg Leu Gly Ala Ser Thr  
 20 25 30

Ser Glu Cys Pro Pro Asn Arg Ala Val  
 35 40

&lt;210&gt; 326

&lt;211&gt; 69

&lt;212&gt; PRT

<213> Homo sapiens

<400> 326

Gly Asp Gly Gly Trp Pro Pro Gln Leu Tyr Ser Pro Glu Gln Glu Val  
1 5 10 15

Val Gly Arg Gly Gln Glu Trp Ile Leu Lys Ala Lys Phe Ser Asp Pro  
20 25 30

Val Gly Thr Arg Thr Gly Lys Leu Ser Ser Ser Ser Gln Gly Gln Arg  
35 40 45

Ile Trp Val Phe Val Gly Phe Cys Pro Gln Pro Gln Asn Ser Arg Ser  
50 55 60

Glu Ser Gly Ile Ser  
65

<210> 327

<211> 11

<212> PRT

<213> Homo sapiens

<400> 327

Arg Gln Ala Ser Leu Pro Ser Pro Cys Thr Arg  
1 5 10

<210> 328

<211> 8

<212> PRT

<213> Homo sapiens

<400> 328

Asn Ser Ala Arg Gly Gln His Glu  
1 5

<210> 329

<211> 47

<212> PRT

<213> Homo sapiens

<400> 329

Asp Tyr Arg Arg Glu His Arg Thr Trp Ser Asp Phe Phe Phe Lys Cys  
1 5 10 15

Lys Ser Asp Tyr Val Thr Leu Leu Leu Glu Ala Pro Gln Trp Leu Pro  
20 25 30

Met Ala Val Arg Val Arg Ala Ser Pro Arg Pro Gly Phe Pro Pro  
35 40 45

<210> 330

<211> 49

<212> PRT

<213> Homo sapiens

<400> 330

Val Ala Pro Gly Phe Arg Leu Leu Leu Tyr Ser Tyr Pro Glu Leu Arg  
1 5 10 15

Gln Ala Leu Ser Gln Pro Arg Pro Leu Leu Pro Leu Ser Gly Thr Thr  
20 25 30

Phe Pro Gly Leu Phe Val Pro Phe Ile Leu Lys Ser Pro Pro Gln Arg  
35 40 45

Ala

<210> 331

<211> 47

<212> PRT

<213> Homo sapiens

<400> 331

Leu Leu Ser His Ser Leu Ser Ser Pro Cys Leu Leu Pro Ser His Tyr  
1 5 10 15

Leu Val Ser Leu Glu Ala Tyr Val Cys Leu Pro Ser Val Glu Cys Gly  
20 25 30

Pro His Gly Thr Gly Pro Ser Gly Ser Leu Leu Cys Ser Gly Leu  
35 40 45

<210> 332

<211> 35

<212> PRT

<213> Homo sapiens

<400> 332

Ser Lys Asp Ala Ser Val Arg Leu Asp Val Ala Leu Ala Gly Trp Leu  
1 5 10 15

Gly Val Pro Pro Gly Val Ile Cys Cys His Leu Leu Thr Cys Pro Arg  
20 25 30

Cys Cys Leu  
35

<210> 333

<211> 52

<212> PRT

<213> Homo sapiens

<400> 333

Glu Phe Gly Thr Arg Met Gly Phe His His Val Gly Gln Ala Gly Leu  
1 5 10 15

Glu Leu Leu Thr Leu Gly Asp Arg Pro Ala Ser Ala Ser Gln Asn Ala

20 25 30  
 Glu Ile Thr Gly Val Ser Thr Ala Pro Gly Leu Ile Phe Phe Leu Asn  
           35                   40                   45

Ala Asn Gln Thr  
           50

<210> 334  
 <211> 25  
 <212> PRT  
 <213> Homo sapiens

<400> 334  
 Met Leu Leu Val Ser Leu Leu Ser Ile Ala Arg Ile Thr Phe Ile Leu  
       1                   5                   10                   15

Val Pro Asn Lys Phe Leu Ile Ser Ile  
                   20                   25

<210> 335  
 <211> 70  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (62)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (65)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 335  
 Glu Ile Thr Ser Ala Trp Thr Leu Leu Ser Ile Ser Leu Ser Ala Phe  
       1                   5                   10                   15

Trp Ser Lys Ser Phe Asn Lys Ser Leu Arg Ser Ser Lys Leu Ser His  
                   20                   25                   30

Val Phe Leu Phe Phe Ser Glu Pro Ser Lys Leu Phe Gln Pro Leu Pro  
           35                   40                   45

Ile Thr Gln Phe Gln Ser Cys Phe His Ile Phe Glu Tyr Xaa Ile Ala  
       50                   55                   60

Xaa Pro Thr Leu Cys Ser  
       65                   70

<210> 336  
 <211> 52  
 <212> PRT  
 <213> Homo sapiens



&lt;400&gt; 336

Leu Leu Arg Ser Arg Leu Asn Ser Arg Ser Leu Cys Val Ser Val Phe  
 1 5 10 15

Val Phe Gln Gln Ile Phe Leu Lys Asn Gln Pro Leu Lys Arg Asn Gly  
 20 25 30

Asn His Trp Pro Leu Ser Pro Pro Pro His Leu Arg Ser Pro Lys Ser  
 35 40 45

Arg Cys Val His  
 50

&lt;210&gt; 337

&lt;211&gt; 63

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 337

Glu Ile Phe Val Gly Lys Gln Lys Leu Thr His Ile Lys Thr Leu Asn  
 1 5 10 15

Ser Ile Tyr Ser Leu Ile Val Arg Lys Glu Arg Arg Arg Glu Gly Lys  
 20 25 30

Lys Met Glu Lys Lys Ile Gly Lys Lys Gly Lys Lys Arg Glu Lys Gly  
 35 40 45

Leu Asp Val Val Ala His Ala Cys Asn Pro Ser Thr Leu Glu Gly  
 50 55 60

&lt;210&gt; 338

&lt;211&gt; 40

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 338

Phe Tyr Ile Asn Lys Ile Ile Lys Tyr Pro Gly Ile Thr Glu Met Thr  
 1 5 10 15

Tyr Arg Gly Ser Ser Lys Ala Trp Lys Tyr Ser Met Val Thr Glu Leu  
 20 25 30

Lys Lys Gly Lys Cys Gln Met Leu  
 35 40

&lt;210&gt; 339

&lt;211&gt; 19

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 339

Gly Gln Phe Ser Ser Leu Phe Tyr Phe Tyr Phe Cys Ser Leu Ser Asp  
 1 5 10 15

Ile Ala Gly

<210> 340  
 <211> 5  
 <212> PRT  
 <213> Homo sapiens

<400> 340  
 Ile Trp Met Glu Ile  
           1                  5

<210> 341  
 <211> 7  
 <212> PRT  
 <213> Homo sapiens

<400> 341  
 Asn Ser Ala Arg Gly Ala Ile  
           1                  5

<210> 342  
 <211> 22  
 <212> PRT  
 <213> Homo sapiens

<400> 342  
 Tyr Asn His Ile Tyr Lys Val Pro Leu Ala Ile Glu Val Thr Tyr Leu  
           1                  5                  10                  15

Tyr Val Phe Ile Ile Arg  
                           20

<210> 343  
 <211> 22  
 <212> PRT  
 <213> Homo sapiens

<400> 343  
 Tyr Asn His Ile Tyr Lys Val Pro Leu Ala Ile Glu Val Thr Tyr Leu  
           1                  5                  10                  15

Tyr Val Phe Ile Ile Arg  
                           20

<210> 344  
 <211> 12  
 <212> PRT  
 <213> Homo sapiens

<400> 344  
 Ile Lys Cys Arg Trp Gly Glu Glu Glu Asn Ser Lys

1

5

10

&lt;210&gt; 345

&lt;211&gt; 46

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (21)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (28)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 345

Thr Thr Tyr Leu Leu Asn Asn Tyr Phe Asp Cys Leu Tyr Ser Tyr His

1

5

10

15

Asp Ala Thr Phe Xaa His Leu Cys Ser Val His Xaa Ile Leu Thr Glu

20

25

30

Cys Leu Glu Met Leu Asp Phe Arg Phe Gln Leu Cys Cys Gly

35

40

45

&lt;210&gt; 346

&lt;211&gt; 62

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 346

Met Ala Ser Thr Pro Ser Val Lys Leu Gln Arg Ser Ser Asp Asp Cys

1

5

10

15

Tyr Phe His His Tyr Tyr Ser Ser Ser Leu Val Arg Lys Thr Lys Ala

20

25

30

Gln Arg Ala Tyr Ser Gln Asp Leu Asn Leu Phe Phe Pro Ser Leu Ser

35

40

45

Phe Ile Ser Tyr Phe Gln Asn Glu Tyr Asn Asn Ser Thr Ser

50

55

60

&lt;210&gt; 347

&lt;211&gt; 27

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 347

His His Tyr Tyr Ser Ser Ser Leu Val Arg Lys Thr Lys Ala Gln Arg

1

5

10

15

Ala Tyr Ser Gln Asp Leu Asn Leu Phe Phe Pro

20

25

<210> 348  
 <211> 26  
 <212> PRT  
 <213> Homo sapiens

<400> 348  
 Ile Arg His Glu Leu Met Val Phe Ile Thr Tyr Met Ser His His Ser  
 1 5 10 15

Cys Thr Thr Val Ala Asn Ile Asn Ile Lys  
 20 25

<210> 349  
 <211> 35  
 <212> PRT  
 <213> Homo sapiens

<400> 349  
 Asp Ser Leu Ile Leu Ala Thr Tyr Ser Val Ser Trp Asn Leu Phe Pro  
 1 5 10 15

Asn Met Ile Glu Lys Lys Pro Arg Thr Trp Gln Leu Leu Leu Phe Phe  
 20 25 30

Ser Leu Glu  
 35

<210> 350  
 <211> 15  
 <212> PRT  
 <213> Homo sapiens

<400> 350  
 Glu Phe Gly Thr Ser Ser Asn Lys Gln Thr Asn Lys Gln Thr Ser  
 1 5 10 15

<210> 351  
 <211> 41  
 <212> PRT  
 <213> Homo sapiens

<400> 351  
 Pro Gln Tyr Tyr Ser His Lys Gln Gly Val Pro Arg Gln Ser Ile Thr  
 1 5 10 15

Glu His Lys Gln Lys Met Leu Thr Leu Gln Val Ser Phe Leu Ser Thr  
 20 25 30

Ile Lys Val Gly Ala Asn Asn Thr Arg  
 35 40

<210> 352  
 <211> 38  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (29)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 352  
 Ile Phe Leu His Leu Thr Arg Leu Lys Ser Ser Thr Pro Tyr Pro Cys  
           1                  5                  10                  15  
 Ala Ile Ile Cys Thr Arg Lys Tyr Met Ile Arg Arg Xaa Arg Thr Pro  
                   20                  25                  30  
 Ser Cys His Gln Leu Phe  
                   35

<210> 353  
 <211> 42  
 <212> PRT  
 <213> Homo sapiens

<400> 353  
 Ser Thr Arg Arg Val Leu Ile Asp Phe His Ser Glu Asn Leu Val Gly  
           1                  5                  10                  15  
 Asn Thr His Leu Ser Met Gly Ser Cys Val Arg Pro Asp Pro Trp Ser  
                   20                  25                  30  
 Phe Lys Phe Ser Gly Trp Phe Asn Leu Ser  
           35                  40